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FORTY-FIFTH

ANNUAL REPORT

OF THE COMMITTEE

OF THE

FREE PUBLIC MUSEUMS

OF THE

CITY OF LIVERPOOL,



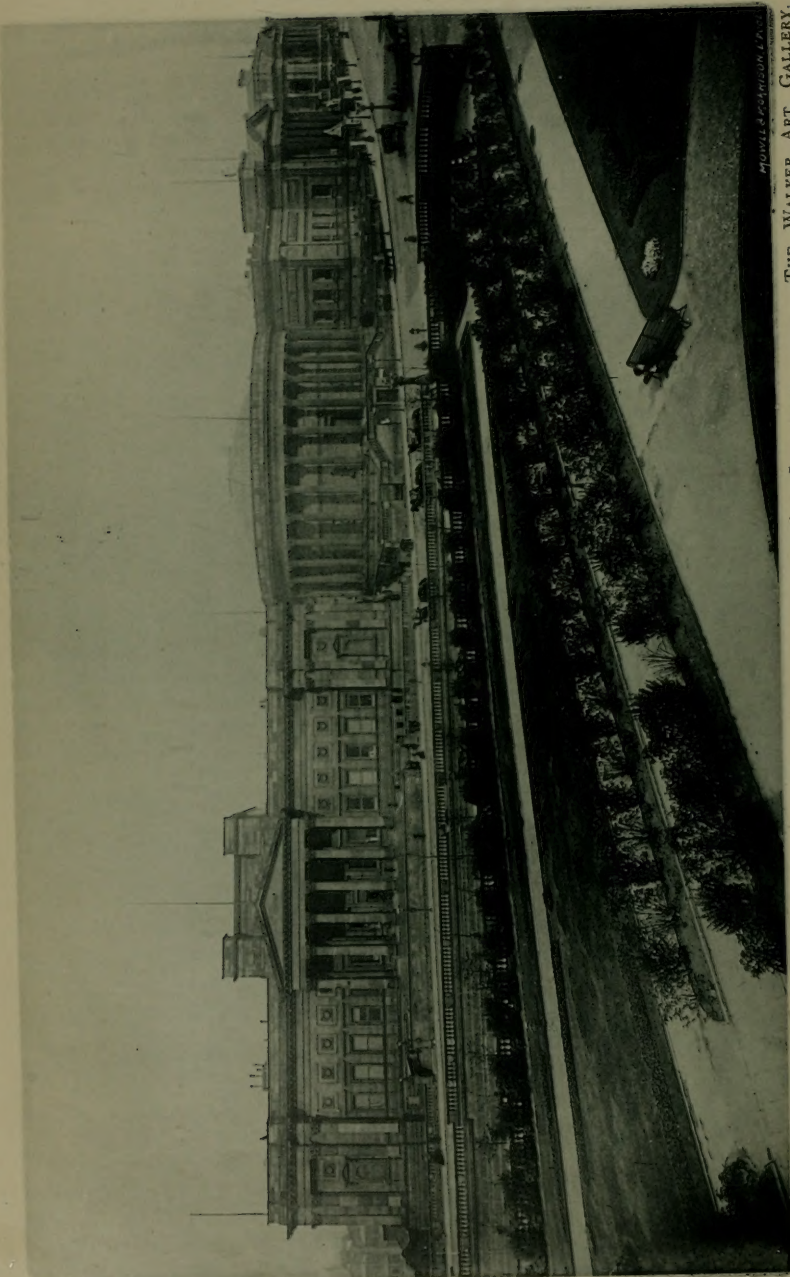
FOR THE YEAR ENDING 31ST DECEMBER, 1897.

(Reprint of the General Report and of the Museums' portion only of the Report of the Committee of the Free Public Library, Museums, and Walker Art Gallery.)



LIVERPOOL:
J. R. WILLIAMS & CO., PRINTERS, 8, SCHOOL LANE.
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MUSEUMS, LIBRARIES, AND ART GALLERY.

THE MUSEUMS.

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THE WALKER ART GALLERY.

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COMMITTEE AND OFFICERS

FOR THE YEARS 1897-8.

THE RIGHT HONOURABLE JOHN HOULDING, J.P., LORD MAYOR.

Committee.

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HENRY O. FORBES, LL.D., F.R.G.S.

Assistant Curator of Derby Museum:

JOSEPH A. CLUBB, M.Sc.

Assistant Curator of Mayer Museum:

P. ENTWISTLE.

GENERAL REPORT.

Our record for the past year is one of growth and activity in every direction ; and both in the work done, and in its quality, we have made gratifying progress.

The commodious new Library in Everton is doing excellent service in that populous district, and the addition of Reading Rooms for women and boys has fully justified this new departure. A large new Reading Room has been added to the Kensington Library. A new Library and Reading Room has been opened at Walton, and a Lending Library at Sefton Park : while plans have been passed and estimates are now being obtained for a new South Library in Windsor Street. Some pressure has been put upon the Committee to establish further libraries and reading rooms. So far the policy of the Committee has been to place them only in great centres of population, and although, where funds permit, it might be desirable to sub-divide some of the larger districts, it is hardly possible to provide libraries and reading rooms in every ward without a serious increase in the Library rate, which the Committee are anxious to avoid. There has been a large increase in the demand for periodicals, due no doubt in great measure to the popular and entertaining character of their contents and the excellence of their illustrations.

The Free Lectures have continued to increase in popularity : the average attendance at the Picton Lecture Hall being 1,187. A beginning has been made in the outer districts, where twenty-eight lectures have been delivered to an average attendance of 226.

The substitution of electric lighting for gas in the Picton Lecture Hall, and an improved system of ventilation, have greatly added to the comfort of the audiences which assemble in this building.

The increasing numbers of visitors to our Museums is the best testimony that they are not losing in their attractiveness, and it is believed that the endeavours being made to introduce a thoroughly scientific

classification is causing them to be more largely made use of by students. The total visitors in the year were 337,838, or a daily average of 1,294. This compares with 1,336, the daily average number of visitors to the British Museum (Natural History).

A new departure has been taken by the issue of a serial "The Bulletin of the Liverpool Museums," which contains the result of original researches made by the Director and his staff, descriptions of new additions to our Museums, and a portion of the new catalogue of our collection of birds which is in course of compilation. This serial has been very favourably received ; it keeps our Museum work before the scientific world, and gives a standing and position to these as being among the leading institutions of the kind in Europe.

The Art Department presents another record of its ever-increasing popularity.

The Permanent Collection has been so considerably enriched during the past five years that it forms in itself a gallery, both in extent and in the high quality of the pictures exhibited, that has but few equals. The want of space for the display of further pictures now presses for serious consideration ; and as no department of our work is more widely appreciated by the public, it is to be hoped that an addition to the permanent gallery will be undertaken at an early date.

The Autumn Exhibition of Pictures was a brilliant success. The works exhibited were very attractive, and the attendance of the public was large and appreciative.

WILLIAM B. FORWOOD.

CHAIRMAN.

THE MUSEUMS.

The Director of Museums furnishes the Forty-Fifth Annual Report upon the CONDUCT and PROGRESS of the Museums.

I.—GENERAL.

THE FREE PUBLIC MUSEUMS comprise (A) the DERBY MUSEUM, of which the nucleus was the collections bequeathed in 1851 to the City, by the Thirteenth Earl of Derby. It contains the *British Collections*, and the general *Zoological, Geological, Mineralogical, and Botanical* Departments, besides which there is an *Aquarium*, containing both Fresh and Salt Water Animals; (B) the MAYER MUSEUM, the larger part of which was collected and presented to the Corporation in 1867, by Joseph Mayer, Esq., F.S.A. These collections are specially rich in (a) *Egyptian, Babylonian, and Assyrian Antiquities*; (b) *Mediæval European Ivories, Bronzes, and Illuminated Manuscripts*; (c) the unrivalled *Brian-Faussett Anglo-Saxon Collection*; (d) the *Mather Miniatures*; and (e) the very important *Pottery Collections*, conspicuously rich in Wedgwood and Old Liverpool Wares. Associated with this Museum, as belonging more nearly to the subjects illustrated by it, though not forming to any large extent part of the Mayer Bequest, are (f) the *Ethnographical Collections*, chiefly of barbaric races.

The building, in which these collections are housed, was erected at the cost of the late Sir William Brown, in October, 1860.

The Exhibition Galleries are open free to the public, as under :—

During January, November, and December	...	from 10 to 4
„ February	... ..	„ 10 to 4-30
„ March and October...	... ..	„ 10 to 5
„ April to September ..	... ..	„ 10 to 6
Also on Monday <i>Evenings</i> during January to	}	.. 7 to 10
March, and October to December ...		

The Museums are closed on Sundays and Fridays (except those of Whit- and Easter-Weeks) throughout the year, as well as on Christmas Day, and days of Public Fast and Thanksgiving.

The Museums were represented by the Director at the Museums Association, which met under the Presidency of Professor E. Ray Lankester, F.R.S., at Oxford, where the members had an opportunity, under the guidance of their respective Curators, of inspecting the more important exhibits, and studying the methods of arrangement in the New Museums, the Pitt-Rivers Collection, and the Ashmolean Museum.

The Director likewise attended the Meeting of the British Association, held in Toronto in August, under the Presidency of Sir John Evans, K.C.B., F.R.S. He was selected by the Council of the Association to deliver the public lecture annually given to the operatives of the City where the Association meets. The lecture, attended by over 1,500 people, was given on Saturday evening, August 21st. After their arrival in Canada, and previous to the meeting of the Association, many of the members were, through the liberality of the Canadian Government and of the various Railway Companies, able to visit the Museums and other Scientific and Educational Institutions in Quebec, Montreal, and Ottawa. At the close of the meeting the Canadian Pacific Railway Company placed at the disposal of three separate parties of selected members, which started on different days, sleeping cars from Toronto to Vancouver, giving them facilities for seeing every place of scientific interest along the route, by detaching their carriage for twenty-four hours, and by providing for them, at these stopping places, special steamers and trains. The Director was attached to the Geological party, under the conduct of Dr. G. M. Dawson, C.M.G., the Director General of the Geological Survey of Canada, assisted by Professor Coleman, Toronto University, Mr. A. E. Barlow and Mr. McInnes, Members of the Geological Survey, who were unwearied in demonstrating and describing all the geological features of interest along the line. The Director, compelled by unforeseen circumstances to turn back at Winnipeg, was able to see a great deal of the mineral deposits of the country thus far West, and to gain a clear idea of its main Geological and Geographical features. He had also the welcome opportunity of personally observing some of the North American Indians. Visits were subsequently paid by him to the National Museum and the Smithsonian Institution, in Washington; the United States Museum and the Metropolitan Museum of Art, in New York; the Peabody Museum at Yale University; and the Peabody Museum and the Museum of Comparative Zoology at Harvard University, Cambridge,

Mass. The Director is grateful to the officers of these institutions for their great courtesy, and highly appreciates the opportunity the occasion gave him of becoming personally acquainted with many of the American men of Science, whose works he has long been familiar with, or whom he has known only by correspondence. Arrangements for an interchange of duplicates with several of the above named institutions were entered into.

During the year has been published the first number of a serial, *The Bulletin of the Liverpool Museums*, intended to make known the contents of the Museums, so many of which are not only new, but of great historical interest; and to publish the results of the investigations carried on in the Laboratories attached to them, and the observations made on the animals living in the Aquarium. The first number was issued on August 4th, and opened with an *Introductory* note descriptive of the origin of the Collections, with portraits of the Thirteenth Earl of Derby, of Mr. Joseph Mayer and of Sir William Brown, and with a View of the Buildings as they existed in 1897, and contains a Catalogue of the Parrots (*Psittaci*) in the Derby Museum, illustrated by hand-coloured plates of *Nestor norfolcensis* (of which the Museum possesses the only known example), of *Coriphilus taitianus* and of the type specimen of *Nasiterna nanina*, Tristram. Two species are therein described as new, *i.e.*, *Poocephalus rubricapillus*, Forbes and Robinson, and *Cyanorhamphus magnirostris*, Forbes and Robinson. Under the heading of *Museum and Aquarium Notes* there will be found an illustrated description of a Crustacean parasitic on a Flying-fish; Habitat of *Gasterosteus pungitius*; The first feeding of Young Trout; *Malapterurus electricus*; Recent acquisitions by the Mayer Museum, and an interesting Folk-lore Note *Medicine at the Museums*.

The *Bulletin* will be published at irregular intervals; but it is hoped that one small 8vo. volume, of four parts, will be issued every year.

Another matter for congratulation, in connection with the Museums, is the fact that the excavations for the foundations for the much-needed New Technical Schools and Museum Extension have been for several weeks under weigh, and, owing to the specially favourable weather that has been experienced, great progress has been made. The buildings will, it is reckoned, be completed by the end of the year 1900.

II.—VISITORS.

During the year there has been a slight increase in the number of visitors to the Museums over that of the previous year, as shown by the following table :—

		1896.		1897.
		(245 Days)		(261 Days)
Total Visitors in the Year	.. ..	298,516	.. ..	337,838
Weekly Average	.. ..	6,092	.. ..	6,496
Daily Average	.. ..	1,216	.. ..	1,294

It may be of interest, for the sake of comparison, to point out that the attendance at the British Museum (Natural History) for 1896 was 417,033 on week days, or a daily average of about 1,336 persons ; that is, a difference in favour of the National over the Liverpool Museum of 42 persons daily, which must be considered very satisfactory. This year the attendances of schools that have taken advantage of the section in the Education Code, under which the time devoted to instruction imparted in Museums reckons as school attendance, have greatly increased. Sixty-three teachers and 1,366 pupils have visited the Museums on 46 occasions, in order to receive lessons from the specimens on exhibition ; while many parents have personally brought their children, for the purpose of giving them special lessons.

Persons desirous of employing the Museums for the purpose of research, reference or sketching, can, on giving satisfactory references, obtain, by application to the Director, tickets enabling them to enter on Fridays, when there are special facilities afforded them for study ; a room is devoted to their accommodation, where particular objects of study may, with the approval of the Director, be brought for their convenience from the cases. Tickets were issued, as usual, during the year (chiefly) to Artists and Students of Natural History, Osteology and Dental Anatomy, who have made extensive use of the collections on the days the Museums were otherwise closed to the public.

The Museums were open on twenty-five Monday evenings during the periods of January to March, and October to December, when the total attendances were 9,838, giving an average of 393 each evening, which is an increase on the previous year's attendance.

During the year many Zoologists and Anthropologists have inspected the collections, among whom may be mentioned Professor Haddon, Dublin ; Sir Henry Howarth, K.C.I.E., F.R.S., London ; Professor S. J. Hickson,

F.R.S., Manchester ; E. M. Janion, Sumatra ; Dr. Huxley ; Dr. Wigglesworth, Rainhill ; Dr. Munro, Edinburgh ; Miss Holt, Liverpool ; Professor H. Alleyne Nicholson, F.R.S., Aberdeen ; Frank Russel, Peabody Academy of Sciences, U.S.A. ; Dr. Goldschmidt, Berlin ; B. P. Lascelles, M.A., Harrow ; E. Hartert, Zoological Museum, Tring ; Graf von Berlepsch, Schloss Berlepsch, Gertenbach ; Professor Revillout, the Louvre, Paris ; Mde. and Mlle. Revillout ; Dr. Percy Rendall ; C. H. Read, British Museum ; J. L. Myres, Oxford ; W. H. Seton-Karr ; J. Edge Partington ; W. E. Crum, British Museum ; Rev. J. Chalmers, D.D., New Guinea ; Dr. Gregory, British Museum ; Dr. Hans Græven, Berlin ; C. M. Pleyte, Leyden ; A. Trapnell, Bristol ; Professor George P. Merrill, Curator, Department of Geology, U. S. National Museum ; Edward Bidwell, Twickenham ; Coutts Trotter, Edinburgh.

III.—LECTURES.

Twenty-one Lectures were delivered by members of the staff on Monday evenings in the Theatre of the Museum. They were illustrated by specimens from the Museums and by lantern slides. The total attendance at the Lectures was 3,292.

The following is a list of the subjects :—

A course of six Lectures on “Eskimo Life” was given by the Assistant Curator of the Mayer Museum, Mr. P. Entwistle :—

Jan. 11th.—“The Greenland Eskimo.” I.

Jan. 18th.—“The Greenland Eskimo.” II.

Jan. 25th.—“The Arts and Crafts of the Eskimo.” I.

Feb. 1st.—“The Arts and Crafts of the Eskimo.” II.

Feb. 8th.—“The Kayak and its Furnishing.”

Feb. 15th.—“The American Eskimo.”

A course of six Lectures was given by the Assistant in the Derby Museum, Mr. W. S. Laverock, M.A., B.Sc. :—

Feb. 22nd.—“The Frog and its Relations at Home and Abroad.”

Mar. 1st.—“The Tadpole.”

Mar. 8th.—“Tree Frogs and other forms.”

Mar. 15th.—“The Toad.”

Mar. 22nd.—“Newts and Salamanders.”

Mar. 29th.—“Gill-bearing Amphibians and Fossil Forms.”

By the Assistant Curator of the Derby Museum, Mr. J. A. Clubb, M. Sc. :—

Oct. 4th.—“Skeletons of Animals and their uses.”

A course of four Lectures on “Common Wild Flowers,” by Mr. W. S. Laverock :—

Oct. 11th.—“The Buttercup.” I.

Oct. 18th.—“The Buttercup.” II.

Oct. 25th.—“The Poppy.”

Nov. 1st.—“The Daisy.”

A course of four Lectures on “The Indian Tribes of N. W. America,” by Mr. P. Entwistle :—

Nov. 8th.—“Their Characteristics and Organization.”

Nov. 15th.—“Their Textile and other Arts.”

Nov. 22nd.—“Their Ceremonies.”

Nov. 29th.—“Their Totems, etc.”

A. DERBY MUSEUM.

THE ENTRANCE HALL AND GALLERIES.

(BRITISH COLLECTIONS.)

Little change beyond the filling of blanks in the series has taken place in the British Collections, except the addition of a very fine specimen of a Sigillarian trunk with Stigmarian roots, standing $5\frac{1}{2}$ feet above the floor, which we owe to the munificence of J. Harwood Banner, Esq. This is a most instructive specimen, and at once conveys, as no amount of reading can, an idea of the character of the flora of the coal-bearing measures. Through the courtesy of Mr. G. A. Haworth, ex-President of the Liverpool Geological Association, two members of the Museum Staff were enabled to see the fossil *in situ*, so as to make a report upon its value and suitability as a Museum specimen. It was situated in the roof of the Wigan Six-feet Seam, Ince Hall Collieries, the base of the stem being then exposed and two of the roots visible for a considerable part of their length. The Director wishes to record here his thanks to Mr. Knowles and Mr. Haworth for the care and skill with which they had it quarried and safely conveyed to the Museum. This specimen is being built up in the Gallery immediately over the Main Entrance.

ZOOLOGICAL DEPARTMENT.

(a) GENERAL.

During the past year there has been no change in the number or duties of the staff. Mr. Herbert C. Robinson, however, who had volunteered his services at the end of 1896, has been engaged on the temporary staff. His whole time has been devoted to the Catalogue of the Birds, and working in conjunction with the Director, he has completed the naming and labelling of the Parrots (*Psittaci*); the Cuckoos and Plantain-eaters (*Cuculi*); the Woodpeckers (*Pici*), etc. Of these the Catalogue of the *Psittaci* has been published in the first number of the *Bulletin of the Museums*; while that of the Cuckoos (*Cuculidæ*) and Plantain-eaters (*Musophagidæ*) is now in the press, and will be published early in the year (1898).

A few duplicates of mounted Mammals, Birds, Fishes, and Invertebrates were presented to the Catholic Blind Asylum, Brunswick Road.

A small collection of duplicate Minerals was sent to the Board School, Croft, near Warrington.

(b) ARRANGEMENT.

The re-arrangement of the Zoological Collections in the room which (when the proposed extension of the Museums is completed) will be the commencement of the continuous Gallery destined to contain the Vertebrates, has now been completed. This room is devoted to Man and the Simian Anthropoidea, viz. :—the Chimpanzees, the Gorillas, the Orang-utans and the Gibbons. The new series of skulls, casts and photographic enlargements, illustrating the various races of mankind—the Caucasian, the Mongolian and the Melanesian—which still retains its popularity, has been further extended during the year. Further re-arrangement is, however, in abeyance for the present, and until the new Extension, which is now under construction, has been completed.

In the Invertebrate Galleries it has been impossible to undertake any very special re-arrangement. Several of the groups of the Insecta have been re-arranged in new drawers by the Zoological Assistants, by whom also the numerous species added to the Museum during the year, both of Vertebrates and Invertebrates, have been determined and catalogued. Many Spirit and Formal preparations have, in addition, been made by them for the various exhibition galleries.

The commencement made last year with the General Catalogue of the Derby Museum on the Card-system has been continued; the Catalogue of the Mayer Museum has been begun. The cataloguing and registering of the Bird Collection is proceeding *pari passu* with the naming and labelling of the specimens.

(c) CONSERVATION.

The usual work of conservation has been continued throughout the year. The examination of the Spirit Collections—chiefly of Invertebrata—long stored in the Spirit Room, referred to in the last Report, has been continued, and the preservative fluids in which they were kept, renewed. The arranging of them into groups has also been continued: but a considerable time must elapse before this work can be completed.

All the Collections have been periodically examined, dusted and kept free from moth and other pests.

A large number of mounted specimens, principally of Birds, have been reduced and made into cabinet skins for the Study Collection.

Numerous specimens of various Vertebrate groups have, as during last year, been placed in Spirit or Formal for future histological use, or for making preparations in illustration of exhibited specimens.

(d) LOANS.

Several species of birds (*Corvidæ*) were lent to the Hon. Walter Rothschild for study at his Museum at Tring, Herts; and a number of specimens of *Millepora*, chiefly from the West Indies, to Professor Hickson, F.R.S., Manchester.

Professor Herdman, F.R.S., University College, Liverpool, also received on loan, a number of specimens for the illustration of his Christmastide Lectures to Children.

(e) PRESENTS.

The number of gifts made to the Museum during the year shows no falling off as compared with last year. Many of these are valuable and interesting specimens, but few are of outstanding importance. Mr. Ridyard, Chief Engineer of the S.S. "Niger," one of Messrs. Elder, Dempster & Company's fleet, has this year again brought over

for the Aquarium, from West Africa, on frequent occasions, living specimens of the Electric Cat-fish (*Malapterurus electricus*) and of the "Walking-fish" (*Periophthalmus koelreuteri*) as well as numerous specimens of Mammals and Birds.

The most notable single gift to the General Collections in the Derby Museum during the year was the large and valuable collection of North American Birds' Eggs, made by H. Noble Esq., of Temple Combe, Henley-on-Thames, to whom the thanks of the Council were voted on the 7th of July.

(f) EXCHANGES.

A mounted specimen of *Apteryx oweni* (28. 7. 97. 1) was exchanged with Mr. H. C. Robinson, for three Bird Skins:—*Stringops habroptilus*, *Prosthemadera novæ zeelandiæ*, and *Irena puella*.

Stuffed specimen of the Red Howler Monkey (*Mycetes seniculus*); sent to the Preston Museum.

African Mud-fish (*Protopterus annectens*); sent to Professor Bashford Dean, Columbia College, New York, and to Professor Howes, F.R.S., Royal College of Science, London.

(g) ACQUISITIONS.

INVERTEBRATES—

Porifera. (Sponges.)

Sycandra compressa; *Halichondria* sp. (30. 12. 96. 1 & 2); collected at Port Erin, Isle of Man (omitted from last Report).

Coelenterata. (Zoophytes, Sea Anemones, etc.)

Tubularia indivisa; *Garveia nutans* (20. 3. 97. 1 & 2); collected at Hilbre Island.

Sertularella polyzonias; *Antennularia antennina*; *A. ramosa*; *Tubularia* sp.; *Actinia equina*; *Anemonia sulcata*; *Bunodes verrucosa* (30. 12. 96. 3-9); collected at Port Erin (omitted from last Report).

Echinoderma. (Starfishes, etc.)

Two Brittle-Stars (20. 3. 97. 11); collected at Hilbre Island.

Plate of *Uintacrinus socialis*; presented by Mr. F. Bather, British Museum, and printed description of same (11. 5. 97. 2 & 3); presented by Mr. W. Hoyle, Manchester.

Sixteen Micro-photographs of sections of Echinoderm Spines (29. 10. 97. 1-16); presented by Mr. J. H. Hardy.

Brissopsis lyrifera; *Echinus miliaris*; *E. sphaera*; *Solaster papposa*; *Ophiocoma nigra*; *Ophiothrix pentaphyllum*; *Amphiura squamata*; *Antedon rosaceus* (30. 12. 96. 10-17); collected at Port Erin (omitted from last Report).

Vermes. (Worms, etc.)

Six Nematodes (*sp. indet.*) (2. 2. 97. 1); from body of Rhea.

The Spawn of *Arenicola piscatorum* and *Nereis* sp. (20. 3. 97. 9 & 10); collected at Hilbre Island.

Three Common Earthworms (*Lumbricus terrestris*) (5. 4. 97. 1); collected at Sefton Park and presented by Mr. Wm. S. Laverock.

Piece of Rock, containing numerous Brachiopods (*Orthis* sp.), from the summit of Snowdon (24. 8. 97. 1); presented by Mr. Griffith Williams, *per* Mr. D. Jones.

Nereis pelagica; *Nereis* sp.; *Arenicola piscatorum*; *Polynoe* sp. (30. 12. 96. 18-21); collected at Port Erin (omitted from last Report).

Arthropoda.

Crustacea (Crabs, Lobsters, etc.).

Limnoria terebrans (*in situ*) in wood, from the River Mersey at Scaforth (24. 3. 97. 1); presented by Mr. Brodie.

Two Prawns (*Palæmon serratus*) (29. 4. 97. 2), and one just beginning to cast its shell (21. 5. 97. 1); both from the Aquarium.

Seven Wood-lice (*Oniscus* sp.) (8. 11. 97. 1); from Liverpool.

Hyas coarctatus; *Galathea squamifera* (young); *Ebalia tunica*; *Porcellana longicornis*; *Palæmon serratus* and *Pagurus* sp. (30. 12. 96. 21-26); collected at Port Erin (omitted from last Report).

Tracheata. (Insects, Spiders, etc.)

Collection of 46 specimens of Australian Lepidoptera from Northern Queensland, among which are species of *Ornithoptera*; *Papilio*; *Charaxes*; *Melanites*; *Eustychma*; *Daphnis* and *Macroglossa* (12. 1. 97. 1-46); also two Butterflies (*Papilio* spp.), from Borneo (19. 11. 97. 1 & 2); presented by Mr. H. C. Robinson.

Two Large Cocoons of a species of Colonial Moth from West Africa (25. 3. 97. 1 & 2); purchased.

One Cicada and a Collection of Lepidoptera from Benin, consisting of about 30 species and 90 specimens, of which the following have been determined :—

Apatura misippus, ♂ and ♀; *Orpheides erithonius*, ♀; *Danaïs alcippus*; *Papilio policles*; *Ergolis enothrea*; *Eunica amulia*; *Pieris calypso*; *Diadema dubius*; *D. salmaceis*; *Buncea alcinoe*; *Patula macrops*; *Phalene cocalus* and *Nephele peneus* (1. 10. 97. 2-31); presented by Mr. Arthur Hewer.

Collection of Lepidoptera from Syria, consisting of 21 specimens (*spp. indet.*) (19. 10. 97. 1-21); presented by Mr. Newall.

Moth (*Tryphaena pronuba*) (29. 8. 97. 1).

Collection of Lepidoptera from Benin River District, W. Africa, consisting of 20 specimens (*spp. indet.*) (4. 5. 97. 2-21); presented by Mr. R. Wade.

Five specimens of Moths (*Taniocampa opima*, ♂ & ♀; *Phragmatobia fuliginosa*, ♂ & ♀; and *Orthosia macilenta*) (11. 12. 97. 1-3); presented by Mr. Birch.

Insects (*spp. indet.*) in various stages; Spiders (*spp. indet.*), collected from timber, probably imported from India (24. 7. 97. 1-20); other Insects (*spp. indet.*); one larva of Goat Moth (*Cossus ligniperda*), from English Elm; two Chrysalids (*spp. indet.*), from American Ash (7. 8. 97. 1-20); three Spiders (*spp. indet.*) (21. 8. 97. 1-3); two Spiders and three Harvestmen (*spp. indet.*) (18. 9. 97. 1-5); presented by Mr. William Swan.

Rock Scorpion (*Buthus afer*); two Spiders (*Mygale* sp.); four Spiders (*spp. indet.*); Spider's Nest with young (1. 1. 97. 6-12); two Spiders (*Mygale* sp.) (27. 4. 97. 8); *Mantis* sp. (20. 8. 97. 1), from W. Africa; presented by Mr. A. Ridyard.

Two Spiders (*Mygale* sp.); Rock Scorpion (*Buthus afer*); two Centipedes (*Scolopendra* sp.) and one Caterpillar (7. 12. 97. 35-38); presented by Mr. W. E. Gibney, per Mr. A. Ridyard.

Two Goliath Beetles (*Goliathus giganteus*), from W. Africa (13. 4. 97. 1 & 2); presented by Mr. Hendrick.

Five small Beetles (*Amara communis*, Panz.), from Liverpool (18. 5. 97. 2); various stages in the life-history of *Tipula oleracea*, from Sefton Park (29. 5. 97. 2); an Insect Larva, *in situ*, in apple with Chrysalis and perfect Insect (11. 10. 97. 1); presented by Mr. W. S. Laverock.

Scorpion (*Buthus testaceus* (?)), from Ashton, Cape Town, S. Africa (12. 7. 97. 1); presented by Mr. H. A. Dibbin, C.E., per Mr. J. S. Dibbin.

Four Centipedes (*Scolopendra* sp.), from Tuebrook (30. 4. 97. 1); presented by Mr. P. Entwistle.

Stages in the development of the Blow-fly (7. 4. 97. 2); prepared in the Laboratory.

Centipede (*Scolopendra* sp.) and Millipede (*Julus* sp.) (27. 5. 97. 2 & 3); six Chrysalids; eight Beetles and one Centipede (8. 11. 97. 2-4).

One Longicorn Beetle (*Astinomus ædilis*) (9. 10. 97. 1); presented by Mr. R. Norbury.

Saw Fly (*Sirex gigas*), found in timber yard, Bootle (28. 7. 97. 2); presented by Mr. W. Hibbert.

Two Dragon Flies (*spp. indet.*) (27. 7. 97. 1), (3. 8. 97. 1)—(the former caught on Landing Stage), Liverpool; purchased.

Larval Stage of Common Cricket (*Gryllus domesticus*) (1. 10. 97. 1); presented by Mr. T. H. Wardleworth.

Two Locusts (*Pachylus migratorius*) from Italy (7. 12. 97. 1 & 2); presented by Mr. J. F. Jevons.

A collection of local Lepidoptera (consisting of 46 species of Butterflies and 510 species of Moths), containing upwards of 1,000 specimens (31. 12. 96. 8-564); purchased (omitted from last Report).

Mollusca.

Land Shell (*Bulinus tenebricus*), from near Lake Mwern, Central Africa (9. 2. 97. 1); presented by Mr. F. S. Arnot.

Collection of Mediterranean Shells, consisting of about 135 specimens, from Alexandria :—

Canarium fasciatum; *C. gibberulus*; *Patella athletica*; *Janthina fragilis*; *Galerus chinensis*; *Eutropia variegata*; *Nassa mutabilis*; *N. gibbosula*; *N. variabilis*; *Scalaria venosa*; *Neritula neritea*; *Haliotis lamellosa*; *Oliva bulbosa*; *Cypræa turdus*; *Typhis sowerbyi*; *Pisania maculosa*; *Euthria lignaria*; *Phasianella pullus*; *Fusus syracusanus*; *Bulla ampulla* (var.); *Fissurella* sp. (juv.); *Nerita polita*; *N. squamulata*; *N. chameleon*; *N. antiquatus*; *Cerithium* sp.; *Ziziphinus exiguus*; *Clanculus cruciatus*; *Murex erinaceus*; *M. trunculus*; *M. tribulus*; *Natica olla*; *Columbella* sp.; *Abra alba*; *Mactra stultorum*; *Circe corrugata*; *C. egyptiaca*; *Pecten varius*; *P. sanguinolenta*; *Lima paucicostata*; *Chama* sp.; *Hyalea affinis* (2. 3. 97. 1-42); presented by Mrs. Dodd, Birkenhead.

Specimens of *Dendronotus arborescens*; *Archidoris tuberculata*; *Acanthodoris pilosa*; *Eolis papillosa*; *Coryphella rufibranchialis*; *Cuthona nana* (20. 3. 97. 3-8); collected at Hilbre Island.

Four specimens of *Bulinus fossilis*, from Sugar Loaf Hill, St. Helena; and *Helix bipartita*, from N. Australia (21. 4. 97. 1 & 2); presented by Mr. H. C. Robinson.

Fresh-water Mussel (*Anodonta cygnea*) (25. 6. 97. 1); from the Aquarium.

Three Fresh-water Mussels, with the sides of the shells eroded and perforated by an undetermined agency (3. 9. 97. 2) (19. 10. 97. 22); from the Aquarium.

Collection of Shells from La Corbiere, Jersey (1. 6. 97. 2); presented by Mr. Alfred C. Kelling.

Cuttle Fish (*Eledone cirrhosus*) from Egremont (29. 4. 97. 1); presented by Mr. J. Baker.

Flying Squid (*Ommastrephes sagittatus*), caught off Douglas Head; taken from the Store Room, with no reference number and now referred to Register of this year (19. 5. 97. 2).

Specimens of *Pecten opercularis*, *Littorina littorea*, *L. obtusata*, *Lamellaria perspicua*, *Aplysia punctata* and *Lamellidoris proxima* (30. 12. 96. 27-32); collected at Port Erin, Isle of Man (omitted from last Report).

CHORDATES.

Fishes.

Six Electric Cat-fish (*Malapterurus electricus*) (one 2ft. lin. in length and weighing 9 lbs.) from Boma River and Rio del Rey (1. 1. 97. 1) (20. 8. 97. 8) (7. 12. 97. 32); four Mud-fish (*Protopterus annectens*) (27. 4. 97. 13) (15. 5. 97. 1); Twenty Walking-fish (*Periophthalmus kalreuteri*) from Rio del Rey (27. 4. 97. 3) (7. 12. 97. 33) (20. 8. 97. 6); Cat-fish (*Auchenaspis biscutatus*) (20. 8. 97. 17); two Young Cat-fish (*Clarius* sp.) (20. 8. 97. 16) (27. 4. 97. 1); three other Fishes (*gen. et sp. indet.*) (27. 4. 97. 10) (7. 12. 97. 34); presented by Mr. A. Ridyard.

Twenty-one Walking-fish (*Periophthalmus kalreuteri*), from Rio del Rey, W. Africa (7. 12. 97. 3); presented by Mr. Forman *per* Mr. A. Ridyard. (Seven transferred to the Zoological Gardens, London, December, 1897).

Three Young Fishes (*Hemirhamphus calabaricus*), from Ukaka, Eloby, West Africa (7. 12. 97. 39); presented by Mr. W. G. Stokes *per* Mr. A. Ridyard.

A collection of Deep-sea Fishes:—*Stomias boa*; *Alepocephalus rostratus*; *Pomatomus telescopium*; and four *Scopelus benoiti* from the Mediterranean (14. 1. 97. 1-7); purchased.

Lump-sucker (*Cyclopterus lumpus*), from Garston (3. 4. 97. 1); purchased.

Trout with arrested development of the upper jaw, from the River Alyn, North Wales (19. 4. 97. 1); presented by Mr. H. Davies, Wrexham.

Stages in the development of the Loch Leven Trout (5. 5. 97. 2); two North American Cat-fish (*Amiurus* sp.) (18. 5. 97. 1) (7. 6. 97. 1); two young Eels from Rainford (26. 5. 97. 1) (27. 5. 97. 1); Stone Loach (*Nemacheilus barbatula*) (29. 5. 97. 1); Nine-spined Stickleback (*Gasterosteus pungitius*), diseased (24. 7. 97. 1); two Greater Sand-eels (*Ammodytes lanceolatus*) from the Estuary of the Dee, Cheshire (19. 8. 97. 1); young Conger Eel (20. 8. 97. 1); several young Rainbow Trout (*Salmo irideus*), affected with a ciliated Infusorian (2. 9. 97. 1) (3. 9. 97. 1); two Short-spined Cottuses (*Cottus*

scorpius), ♂ and ♀, (15. 9. 97. 1); Fifteen-spined Stickleback (*Gasterosteus spinachia*) (21. 9. 97. 1); young Three-bearded Rockling (*Motella tricirrata*) (18. 12. 97. 1); three Three-spined Sticklebacks (*Gasterosteus aculeatus*) from Leasowe (23. 12. 97. 1); White Bream (*Abramis blicca*) (24. 12. 97. 1); Roach (*Leuciscus rutilus*) (24. 12. 97. 2); from the Aquarium.

Flying Gurnard (*Dactylopterus volitans*), from the French Ivory Coast, South West Africa (18. 5. 97. 3); presented by Mr. Sidney J. B. Toby.

Tope (*Galeus vulgaris*), ♀, caught at the Bar, River Mersey (9. 9. 97. 1); purchased.

Eel (*Conger macrops*), caught in the Atlantic (17. 12. 96. 1); presented by Mr. Hendrick, Purser, R.M.S. "Teneriffe" (omitted from last Report).

Spirangium jugleri, probably the egg case of the Wealden Fish *Hybodus*, and separated valves of *Spirangium*, from the Hastings Sand, near Hastings (8. 3. 97. 37 and 37A); purchased.

Amphibians.

Stages in the development of the Common Frog (5. 5. 97. 1); Green Tree Frog (*Hyla arborea*) (4. 12. 97. 1); from the Aquarium.

Reptiles.

Chameleon (*Chamaeleon parvilobus*) (1. 1. 97. 3); two Snakes (*Typhlops* sp.) from Fernando Po, and (*Naja melonoleuca*) from Rio del Rey (1. 1. 97. 4 & 5); three Lizards (*Agama colonorum*) and a Snake (*gen. et sp. indet.*) from W. Africa (27. 4. 97. 4 & 9); young African Python (*Python sebae*) from Fernando Po (20. 8. 97. 15); Head of Nose-horned Viper (*Vipera nasicornis*), and young African Python (*Python sebae*) (7. 12. 97. 26 & 27); presented by Mr. A. Ridyard.

Tree Snake (*Gastropyxis smaragdina*) and Young Crocodile (*gen. et sp. indet.*) from Cameroon (7. 12. 97. 42 & 43); presented by Mr. W. E. Gibney, *per* Mr. A. Ridyard.

British Viper (*Pelias berus*) from Llanberis, N. Wales (29. 3. 97. 1); presented by Mr. John Hind.

Young Alligator (*gen. et sp. indet.*) found in the hold of a ship in the docks (6. 4. 97. 1); purchased.

Three Horned Lizards (*Phrynosoma cornutum*) from Texas (24. 6. 97. 1); presented by Mr. W. Roxburgh and Mr. S. McInnes, Engineers, s.s. "Belgian King," *per* Mrs. Soldat.

Green Lizard (*Lacerta viridis*) from Madeira (30. 7. 97. 1); two British Ringed Snakes (*Tropidonotus natrix*) (10. 8. 97. 1) (31. 8. 97. 1); from the Aquarium.

Young Lizard (*Varanus niloticus*) (30. 10. 97. 1); purchased.

Birds.

The species indicated by an asterisk are new to the Collection.

Weaver-bird's Nest, from W. Africa (1. 1. 97. 2); presented by Mr. A. Ridyard.

Nineteen specimens from Cape York Peninsula, Queensland (7. 1. 97. 1-19), collected by Mr. H. C. Robinson:—*Podargus papuensis*, Q. & G.; two *Oriolus viridis*, Lath.; *Philemon buceroides*, Swains.; *P. argenteiceps*, Gould; two *Chlamydodera orientalis*, Gould; *Graucalus hypoleucus*, Gould; *G. melanops*, Lath.; *Chibia bracteata*, Gould; *Lalage leucomelana*, Vig. & Horsf.; *Chalcophaps chrysochlora*, Wagl.; *Halcyon macleayi*, Jard. and Selby; *Ptilopus superbus*, Temm., ♂ & ♀; *P. swainsoni*, Gould; *Psittenteles chlorolepidotus*, Kuhl.; *Ptilotis flavistriata*, Gould; and *Calornis metallica*, Temm.; also the following:—*Cinnyris frenatus* (2. 3. 97. 44); Robin (*Erithacus rubecula*), ♀, (17. 5. 97. 1); two *Bucco torquatus*, from Bogota; *Melanerpes erythrocephalus*, from N. America; *Trachyphonus goffini* and *Pogonorrhynchus bidentatus*, from W. Africa (21. 6. 97. 1-4); *Ptilopus superbus*; *P. swainsoni* and *Myzomela obscura*, from Cooktown, N. Australia; *Mesobucco duvauceli* and **M. eximius*, from Mt. Kalulong, N. Borneo (19. 7. 97. 1-5); Rook (*Trypanocorax frugilegus*); Starling (*Sturnus vulgaris*) and Thrush (*Turdus musicus*), from Aigburth (6. 10. 97. 1-3); Golden-winged Woodpecker (*Colaptes auratus*), ♂ & ♀, from Canada (13. 12. 97. 1) and *Urogalba paradisea*, from British Guiana (24. 12. 97. 3); presented by Mr. H. C. Robinson.

Spoonbill (*Platalea leucorodia*) (29. 1. 97. 1); White-fronted Goose (*Anser albifrons*) (3. 2. 97. 1); Goosander (*Mergus merganser*), ♂; Great Crested Grebe (*Podiceps cristatus*) (4. 2. 97. 1 & 2) and Coot (*Fulica atra*) (9. 3. 97. 2); purchased.

Rhea americana, ♂, (1. 2. 97. 1); presented by Mr. Proctor, Noctorum Birkenhead.

Three *Rhamphocelus icteronotus* (23. 2. 97. 11-13); presented by Mr. E. K. Dunstall.

**Carpophaga nuchalis*; **Prioniturus montanus*, ♂ and ♀; **Pitta kochi*, ♂ and ♂ juv.; **Merula thomassoni*, ♂; **Chlorura brunneiventris*, ♂, from N. Luzon; **Carpophaga mindorensis*, ♂, from Mindoro (23. 2. 97. 1-8);

**Trichoglossus djampeanus*, from Djampea Island (15. 6. 97. 1); two **Pteridophora alberti* (23. 2. 97. 9 & 10); **Parotia carolæ*, from New Guinea (29. 6. 97. 1); *Diphyllodes chrysoptera* (21. 10. 97. 1); **Centropus melanops*, from Samar, and *Xantholaema rosea*, from Negros (21. 12. 97. 1 & 2); purchased.

Specimen of *Dicrocercus furcatus*, from W. Africa (31. 5. 97. 1); presented by Mrs. G. Castellain.

Specimens of *Pelagodroma marina*, and Egg from Salvage Islands (13. 7. 97. 1 & 2); presented by Mr. W. R. Ogilvie-Grant, British Museum.

Wild Duck (*Anas boschas*), ♂, caught wild in Liverpool (26. 11. 97. 1); presented by Mr. J. Fraser.

Small Parrot (*Pæocephalus meyeri*), ♀, (17. 12. 97. 1); presented by Mr. Rotch.

Selection of specimens, ex J. Whitehead's Collection from the Philippine Islands:—*Oriolus chinensis*, ♂; *Pitta kochi*, ♀; **Loxia luzoniensis*, ♂ and 2 ♀; **Zosterornis whiteheadi*, ♂ and ♀; **Z. dennistouni*, ♂ and ♀; **Zosterops aureiloris*, ♂; *Z. luzonica*, ♂ and ♀; *Z. meyeri*, ♂; **Hyloterpe albiventris*, ♂; **Brachypteryx polioygyna*, ♂ and ♀; *Erithacus calliope* ♂; **Chimarrhornis bicolor*, ♂ and ♀; **Pyrrhula leucogenys*, ♂ and ♀; *Lyngipicus validirostris*, ♀; **Dicaeum luzoniense*, ♂; **Cinnyris whiteheadi*, ♂ and ♀; **C. flagrans*, ♂ (14. 12. 97. 27-52); purchased.

Egyptian Goose (*Chenulopez ægyptiaca*) (13. 3. 97. 1); presented by the Parks and Gardens Committee.

Three Eider Ducks (*Somateria mollissima*) and skeleton; 7 Guillemots (*Uria troile*) and 2 skeletons; Great Eagle Owl (*Bubo maximus*) (13. 4. 97. 3-5); purchased.

A Collection of Bird Skeletons:—*Trochalopteron sinense*; *Sitagra olivacea* from South Africa; *Chrysotis æstiva*; Skull of *Dendrocoryna fulva*; *Dendrocopus major*; *Falco æsalon*; *Strix flammea*; *Syrnium aluco*; *Calodromas elegans*; *Cinclus aquaticus*; *Terpsiphone perspicillata*; *Rallus aquaticus*; *Gallinula chloropus*; Skull of *Trichoglossus chlorolepidotus*; *Turnix nigricollis*; *Ibis æthiopica* (imperfect); *Cinnyris talatala*; *Gecinus viridis*; *Columba palumbus*; *Gallinago gallinula*; *Dacelo gigantea*; *Apteryx* sp.; *Chloris chloris*; *Passer domesticus*; two *Turdus musicus*; *Upupa epops*; *Eurylemus javanicus*; *Pyrrhula rubicilla*; *Melanocorypha tartarica*; *Rollulus roulroul*; *Caprimulgus europæus*; *Uria troile*; *Corvus corax*; *C. cornix*; *Grus cinerea*; *Lalage dominica*; *Criniger phæocephalus* (13. 4. 97. 6-43); purchased.

Four Birds:—*Columba leuconota*; *Rhamphastos ariel*; *Calænas nicobarica*; *Garrulax* sp. (27. 4. 97. 14-17); purchased.

Two Nests of Waxbill from Sepelli, Benin (4. 5. 97. 1); presented by Mr. R. Wade.

Wren's Nest in the crevice of a Willow Tree, from New Ferry, Cheshire (11. 5. 97. 1); presented by Mr. G. Smith.

* *Rhipidornis gulelmi tertii* (12. 5. 97. 2); purchased.

Young Razor-bill (*Alca torda*) from the Mersey Estuary (9. 7. 97. 1); presented anonymously.

Eight specimens of *Otocorys leucolæma*; seven *Plectrophanes nivalis*, Canada; *Turdus mustelinus*, Honduras; *Micropternus gularis*; *Thereiceryx zeylonica*; two *Xantholæma hæmatocephala* and *Campophaga sykesi*, from Southern India; Species (*indet.*) of *Tyrannidæ*, from Omoa, Honduras; * Finsch's Bird of Paradise (*Paradisea finschi*); four *Piezorhynchus leucotis*, ♂ and ♀; and *P. gouldi*, from Cooktown, N. Australia (14. 12. 97. 76-102); purchased.

Common Scoter (*Ædemia nigra*) (9. 12. 97. 1); purchased.

Zenaidura carolinensis (Linn.), ♂ and ♀; *Melopelia leucoptera* (Linn.), ♂ and ♀; * *Columba nigristrostris*, Scat., two ♂; *Leptoptila brachyptera*, G. R. Gr.; * *L. cassini*, Lawr., two ♀; *Scardafella inca*, Bp., ♀; *Peristera cinerea*, Temm. & Knip., ♂ (31. 12. 97. 1-11); purchased.

Abnormal Egg of Domestic Fowl (13. 5. 97. 1); presented by Mrs. Gamlin.

A collection of North American Birds' Eggs and Nests, including rare species from the far North and extreme South-Western regions, consisting of over 200 species (25. 6. 97. 2-); presented by H. Noble, Esq., Temple Combe, Henley-on-Thames.

Mammals.

Red Howler Monkey (*Myctes seniculus*), from New Granada (11. 1. 97. 1); Orang-utan (*Simia satyrus*), juv. ♂ (19. 1. 97. 1); Grey-cheeked Mangabey (*Cercocebus albigena*), ♀ (9. 3. 97. 1); White-nosed Monkey (*Cercopithecus schmidti*), ♂ (15. 3. 97. 1); Diana Monkey (*Cercopithecus diana*), ♀ (18. 3. 97. 1); Mona Monkey (*Cercopithecus mona*), ♂ (19. 3. 97. 1); White-nosed Monkey (*Cercopithecus schmidti*?), ♂ (26. 3. 97. 1); Green Monkey (*Cercopithecus callitrichus*), ♂ (31. 3. 97. 1); African Brush-tailed Porcupine (*Atherura africana*) (13. 3. 97. 2); Siamese Cat (*Felis domesticus*) (19. 1. 97. 2); young Duyker-bok (*Cephalophus grimmii*), ♀, (30. 1. 97. 1); Vulpine Phalanger (*Trichosurus vulpecula*), ♀, (30. 1. 97. 2); Three-toed Sloth (*Bradypus tridactylus*), three hours old (10. 5. 97. 1); purchased.

Ancient Egyptian Mummy Head, unrolled, from Egypt (2. 3. 97. 43); presented by Mrs. Dodd, Birkenhead.

Foetal Seal from Pribyloff Islands (25. 3. 97. 3); presented by Mr. Barrett-Hamilton.

Part of Humerus of *Bos* sp., from the Submerged Forest, Leasowe (25. 3. 97. 4); Star-nosed Mole (*Condylura cristata*) from island in Lake of the Woods, North America (20. 9. 97. 1); presented by the Director of Museums.

Chimpanzee (*Anthropopithecus troglodytes*), ♂, from Quillo, Loango, West Africa (7. 12. 97. 44); Bosman's Potto (*Perodicticus potto*), from West Africa (27. 4. 97. 12); two Squirrels (*Sciurus erythrogeus*?) from West Africa (27. 4. 97. 11) and (*gen. et sp. indet.*) (20. 8. 97. 3); young Pouched Rat (*Cricetomys gambianus*) from Fernando Po (20. 8. 97. 5); young African Civet Cat (*Viverra civetta*), ♀, from West Africa (7. 12. 97. 25); Horn of an Antelope (*Tragelaphus gratus*?) from Bata, M'pongwee Country, West Africa (20. 8. 97. 11); young Pangolin (*Manis tricuspis*), from Fernando Po (20. 8. 97. 2); presented by Mr. A. Ridyard.

Young Galago (*Galago demidoffi*), ♂, from Bata, West Africa (7. 12. 97. 45); presented by Mr. John Newbury, per Mr. A. Ridyard.

Skeleton of Leopard (*Felis pardus*), incomplete, from South-west Africa (18. 5. 97. 4); presented by Mr. Sidney J. B. Toby.

Fourteen Embryos (10. 5. 97. 2) from West Indies; presented by Dr. Percy Rendall.

Collection of Mammals (skins with skulls, and spirit specimens), ex Dr. Percy Rendall's Collection:—

Marsupialia—

Philander trinitatus, ♂, and *Marmosa murina*, ♂, from Trinidad.

Rodentia—

Mus decumanus, ♂, Tobago; *M. rattus*, ♂ and ♀, Trinidad; *M. alexandrinus*, ♀, Trinidad; *Heteromys anomalis*, ♂ and ♀, Trinidad; *Echimys trinitatus*, two ♀, Trinidad; *Lonchires guianæ*, ♀, Trinidad; *Oryzomys brevicauda*, ♂ and ♀, Trinidad; *Sciurus annulatus*, ♀, British Central Africa.

Cheiroptera—

Carollia brevicauda, ♂ and ♀, skins, also one in spirit, Tobago; *Molossus obscurus*, two ♂, Trinidad; *Artibeus planirostris*, in spirit, Trinidad; *Sarcopteryx bilineata*, in spirit, Trinidad; *S. leptura*, in spirit, Tobago; *Vespertilio nigricans*, in spirit, Tobago; *Schizostoma megalotis*, in spirit, Tobago; *Brachylla cavernarum*, in spirit, St. Vincent (14. 12. 97. 2-26); purchased.

Collection of Mammals (skins with skulls), ex J. Whitehead's Collection:—

Rodentia—

From North Luzon :—*Chrotomys whiteheadi*, Thos, ♂ and ♀, *Phlæomys pallidus*, Nehr. ♂ ; *Crateromys schadenbergi*, Meyer, ♀ ; *Mus everetti*, two ♂ (one immature) ; *M. luzonicus*, ♂ and ♀ ; *M. chrysocomus*, two ♂ ; *Rhynchomys soricoides*, ♀ ; *Carpomys phæurus*, ♂ ; *C. melanurus*, ♂ and ♀.

From North Borneo :—*Hylomys suillus*, ♀ ; *Sciurus notatus*, Thos. ♀ ; *S. whiteheadi* ; ♀ *S. jentinki*, ♂.

Carnivora—

Black Musang, ♀, North Luzon.

Cheiroptera—

Pteropus jubatus, Esch., ♂ and ♀, North Luzon ; *P. vampirus*, ♀, Catanduanes Island.

Primates—

Tursius fuscus, ♀, Samar Island (14. 12. 97. 53-75) ; purchased.

Skeleton of N. Australian Aboriginal (*Homo sapiens*) (14. 12. 97. 1) ; purchased.

Three sub-fossil fragments of Bone (*sp. indet.*), from Caerwys Quarry, Pwllgwyn, Wales (22. 12. 97. 1) ; presented by Mr. Manger.

BOTANICAL DEPARTMENT.

The acquisitions in this Department are as follows :—

Models of Yeast (*Saccharomyces cerevisiae*) ; Black Mould (*Rhizopus nigricans*) Male Fern (*Aspidium filix mas*) ; Bracken (*Pteris serrulata*) ; Spikelet of Oat (*Avena sativa*) ; Rye (*Secale cereale*) ; Buttercup (*Ranunculus acris*) ; Larkspur (*Delphinium Consolida*) ; Christmas Rose (*Heleborus niger*) ; Monk's Hood (*Aconitum Napellus*) ; Red Poppy (*Papaver Rhæas*) ; Rape (*Brassica Napus*) ; Stonecrop (*Sedum acre*) ; Pea (*Pisum sativum*) ; Bean (*Phascolus vulgaris*) ; Clover (*Trifolium pratense*) ; Stinking Mayweed (*Anthemis Cotula*) ; Cornflower (*Centaurea Cyanus*) (4. 1. 97. 1-18) ; purchased.

Collection of Fossil Plants (8. 3. 97. 1-42) from the Hastings Sand near Hastings, consisting of over 100 specimens, referred to about 40 species :—*Chara knowltoni*, Sew. ; *Marchantites zeilleri*, Sew. ; *Equisetites burchardti*, Dunk. ; *E. yokoyamæ*, Sew. ; *Onychyopsis mantelli*, Brong., and fertile segments of the same ; *O. elongata*, Geyl. ; *Matonidium göpperti* ; *Ruffordia göpperti*, Sew. ; *R. göpperti* var. *latifolia*, Sew. ; *Cladophlebis albertsii*, Dunk. ; *C. dunkeri*, Schimp. ; *Sphenopteris fontainii*, Sew. ; *S. fittoni* ; *Weichselia mantelli*, Brong. ; *Sagenopteris mantelli*, Dunk. ; *Leckenbya valdensis*, Sew. ; *Tempskya schimperii*,

Cord. ; *Cycadites saportæ*, Sew. ; *Nilssonia schaumbergensis*, Dunk. ; *Otozamites klipsteinii* var. *superbus*, Sew. ; *O. göppertianus*, Dunk. ; *Zamites buchianus* ; *Z. carruthersi*, Sew. ; *Eury-cycadolepis* ; *Carpolithes* sp. ; *Cycadeomyelon* sp. ; *Sphenolepidium kurrianum*, Dunk. ; *S. sternbergianum*, Dunk. ; *S. subulatum*, Heer. ; *Pagiophyllum crassifolium*, Schenk. ; *Brachyphyllum spinosum*, Sew. ; *B. obesum*, Heer. ; A Lycopod ? "Specimen B," Sew. (Catalogue B. M. Wealden Plants 1894-6, A. C. Seward) ; *Withamia saportæ*, Sew. ; Coniferous wood ; Lignite ; *Bennettites carruthersi* var. *latifolia* ; *Pinites* ; Cycad wood ; purchased.

Specimen of Birch Wood from the Submerged Forest, Leasowe (25. 3. 97. 7) ; presented by the Director of Museums.

Three pieces of the Stem of a Sugar Palm (*Arenga saccharifera*) grown for about 36 years in the Botanical Gardens, Liverpool (31. 3. 97. 2) ; presented by the Parks and Gardens Committee.

Specimens of *Viola canina* and *Ranunculus bulbosus*, from Hoylake (15. 5. 97. 2 & 3) ; presented by the Director of Museums.

Plants collected along with others from the sandhills and waste ground, New Brighton, by Mr. Wm. S. Laverock (30. 6. 97. 1-5) :—*Ranunculus bulbosus*, *Brassica monensis*, *Erysimum cheiranthoides*, *Diplotaxis muralis*, and a White-flowered Crucifer (*sp. indet.*).

Fruit of Loofah (*Luffa* sp.) (30. 7. 97. 2) ; presented by Alderman Stolterfoht.

Plants collected along with others at Sefton Park, by Mr. Wm. S. Laverock (17. 8. 97. 1-3) :—*Senebiera Coronopus*, *Marrubium vulgare*, *Linum usitatissimum*.

Two Cocoa Pods (*Theobroma Cacao*) (20. 8. 97. 4) ; two pieces of fresh Rhizome of Ginger Plant (*Zingiber officinale* ?), from Bapingi, Ogowie River, S. W. Africa (7. 12. 97. 30) ; Cocoa Pod, from Eloby, W. Africa (7. 12. 97. 29) ; fourteen "Horse-eye" Beans (*sp. indet.*) from Victoria, Cameroons (7. 12. 97. 31) ; presented by Mr. A. Ridyard.

Single and double Dahlia Flowers, garden grown (6. 10. 97. 4 & 5) ; presented by Mr. P. Entwistle.

Branch of Sea-Island Cotton (*Gossypium barbadense*) in pod (20. 11. 97. 2) ; some green Cotton Pods, just dehiscing (20. 11. 97. 1) ; several Heads of Rice (*Oryza sativa*) (20. 11. 97. 3), all from Charlestown, S. Carolina ; presented by Mr. R. Entwistle.

Two Photographs of Sequoias, Calaveras Grove, California (21. 12. 97. 1 & 2) purchased.

Large Sigillarioid Trunk, 2ft. 7in. in diameter at the base, with Stigmarian roots attached, altogether standing 5ft. 6in. high, from Ince Hall Collieries, near Wigan, (26. 4. 97. 1); presented by Mr. J. Harmood Banner.

Six pieces of Rock with impressions of Leaves, from Moco, Cameroons, West Africa (20. 8. 97. 9); presented by Mr. A. Ridyard.

Stigmaria (*Stigmaria* sp.) and two *Calamites* (*Calamites* spp.) from the roof of the Wigan 6ft. Mine (27. 11. 97. 1-3); a slab of Shale containing a large Fern (*Alethopteris lonchitica*, Schloth.) and a *Lepidodendroid* (*Lepidodendron selaginoides*, L. and H.) from the roof of the Pemberton 5ft. Mine (27. 11. 97. 4); all from the Ince Hall Collieries, near Wigan; presented by Mr. G. A. Haworth.

Parts of Leaf Bed in Clay Pit, above the Clay, from Stanley, Liverpool (12. 5. 97. 1).

MINERALOGICAL AND GEOLOGICAL DEPARTMENT.

The following are the acquisitions in this Department:—

A Collection of Geological Specimens, made in the Penrith district by Mr. Wm. S. Laverock:—Massive Rhyolitic Ash, containing fragments apparently of hardened Skiddaw slate, probably of Borrowdale age; Shale of Arenig age with plant remains, probably rhizoids of *Algae* (*Fucus* ?); Rhyolitic Ash, reddened; Dun Limestone (argillaceous); “Cone-in-cone” in Arenig Shale; Oolitic Limestone (grains sometimes spheroidal and sometimes oval); compact arenaceous modification of same; Limestone with irregular bands of Chert; *Producta gigantea* with Corals and Polyzoa; *Producta gigantea*; *Syringopora reticulata*, showing sections in different directions and the weathered surface; Piece of Scar Limestone, showing how the fossils weather out:—*Syringopora reticulata*, &c., &c.; Crinoidal Limestone of Yoredale Series; Purple and Red Micaceous Sandstone of Yoredale Series; Massive Breccia; Dark-grey Shale, containing *Trilobites*, *Orthis* sp., and *Leptæna sericea*; Specimens of Barytes; Granite; Skiddaw Slate; Skiddaw Slate, altered by contact metamorphism; Chiastolite Slate; Spotted Schist; Spotted Schist, showing early stages of weathering; Spotted Schist, weathered; Mica Schist; Skiddaw Slate, at junction with Quartz Felsite; Quartz Felsite, with inclusions of Skiddaw Slate; Slate (Skiddaw), showing rhomboidal jointing; Gabbro, showing three different textures of the same

rock ; Dolerite, showing twinning and peculiarly-formed round crystals of Orthoclase ; Granophyre, showing two different colours of the same rock ; Andesite (26. 7. 97. 1-30.).

Specimens of Minerals from Nickel, Gold, and Coal Mines, Canada (19. 10. 97. 23); presented by the Director of Museums.

Four pieces of Fossil-bearing Rock and piece of Fossil Wood, bored, from California (23. 11. 97. 1-5); presented by Messrs. Balfour, Williamson & Co.

Several specimens of small Striated Blocks from an inlet of "Clay," and specimens of the "Clay" (17. 12. 97. 2); collected from the excavations for the Museum Extension by Mr. Wm. S. Laverock.

MISCELLANEOUS.

Piece of Wooden Post and two Peats from the Submerged Forest, Leasowe (25. 3. 97. 5-7); presented by the Director of Museums.

Mass of Nitrate, containing bones and other organic remains, from Peru (12. 6. 97. 1); presented by Mr. W. Lockett.

THE AQUARIUM.

The Aquarium continues to be one of the chief attractions of the Museum ; special interest being taken in the Mud-fishes, the Walking Fishes, the Electrical Cat-fishes and the Sea Anemones; and in the various species of Anthropoids, which have from time to time been on exhibition.

Our efforts to keep in good health and condition the various tropical animals have proved very successful.

The following species have been exhibited alive during the year, those with an asterisk being alive at the date of this report :—

The Fresh-Water Sponge * (*Spongilla fluviatilis*); Fresh Water Hydræ * (*Hydra viridis* and *H. fusca*). Sea-Anemones : The Crass * (*Tealia crassicornis*); Plumose Anemone * (*Actinoloba dianthus*); Beadlet * (*Actinia mesembryanthemum*); Cave-dwelling Anemone * (*Sagartia troglodytes*); Parasitic Anemone * (*Sagartia parasitica*); Pallid Anemone * (*Actinia pallida*?); young Sea-urchin (*Echinus sphaera*); Sea Mouse (*Aphrodite aculeata*); Fresh-water Polyzoa*; Edible Crab * (*Cancer pagurus*); Common Shore Crab * (*Carcinus maenas*); Hermit Crab (*Pagurus bernhardus*); Prawn * (*Palæmon*

serratus); *Palæmonetes varians*; Fresh-water Mussel (*Anodonta cygnea*); the Common Planorbis * (*P. corneus*); the Pond Snail (*Lymnaea stagnalis*); Loch Leven Trout * (*Salmo levenensis*); Rainbow Trout * (*Salmo irideus*); Gold Carp * (*Carassius auratus*); Tench * (*Tinca vulgaris*); Rudd * (*Leuciscus erythrophthalmus*); Minnow * (*Leuciscus phoxinus*); Dace * (*Leuciscus vulgaris*); Roach * (*Leuciscus rutilus*); Pike * (*Esox lucius*); Perch * (*Perca fluviatilis*); White Bream (*Abramis blicca*); Stone-Loach (*Nemacheilus barbatula*); North American Cat-fish * (*Amiurus* sp.); Electric Cat-fish * (*Malapterurus electricus*); Cat-fish * (*Clarias anguillaris*); African Mud-fish * (*Protopterus annectens*); Walking Fish * (*Periophthalmus koelreuteri*); Conger Eel * (*Conger vulgaris*); Spotted Gurnel or Butter-fish (*Centronotus gunellus*); Bullhead * (*Cottus scorpius*); Sole * (*Solea vulgaris*); Plaice * (*Pleuronectes platessa*); Lesser Weever (*Trachinus vipera*); Pogge * (*Agonus cataphractus*). Common Frog * (*Rana temporaria*); Indian Bull-frog (*Rana tigrina*); Green Tree Frog (*Hyla arborea*); Common Toad * (*Bufo vulgaris*); Italian Toad * (*Bufo vulgaris*); Natterjack Toad (*Bufo calamita*); Crested or Great Water-Newt * (*Triton cristatus*); Common or Smooth Newt * (*Molge vulgaris*); Spotted Salamander * (*Salamandra maculosa*); American Salamander * (*Amblystoma carolina*); Mexican Axolotl * (*Axolotl tigrinum*); Menopoma * (*Cryptobranchus alleghaniensis*)—this specimen has now been alive in the Aquarium for sixteen years; West African Crocodile * (*Mecistops cataphractus*); young South African Lizard (*Varanus niloticus*); West African Lizard (*Agama colonorum*); Egyptian Skink * (*Scincus officinalis*); Wall Gecko * (*Tarentola annularis*); Green Lizard (*Lacerta viridis*); English Ringed Snake (*Tropidonotus natrix*); two young African Pythons (*Python sebae*); young West African Crested Eagle (*Lophotriorchis lucani*); two young African Civet Cats (*Viverra civetta*); young West African Pouched Rat (*Cricetomys gambianus*); West African Squirrel (*Sciurus erythrogeomys*); Guinea Baboon (*Cynocephalus sphinx*); two White-collared Mangabeys (*Cercopithecus collaris*); young Moustache Monkey (*Cercopithecus cephus*); young Mandrill (*Cynocephalus mormon*); Mona Monkey (*Cercopithecus mona*); two young Green Monkeys (*Cercopithecus callitrichus*).

Important donations of West African specimens have been made from time to time to the Museum Aquarium by Messrs. A. Ridyard, Forman, Stokes, and others.

SUMMARY OF ACQUISITIONS.

Zoological.

Porifera	2 Species...	Numerous Specimens.
Coelenterata	9 "	" "
Echinoderma	13 "	40 "
Vermes	8 "	20 "
Arthropoda (Crustacea) 10	"	17 "
Arthropoda (Tracheata) 609	„+ many indet.	1,330 "
Mollusca	59 " "	157 "
Fishes	35 "	90 "
Amphibians	2 "	2 "
Reptiles	15 "	24 "
Birds	137 "	195 "
Mammals	63 "	91 "
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962		„+ many indet. 1,966
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Geological and Mineralogical.

Minerals	109 Specimens.
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Botanical.

Species	83 + Species	182 Specimens.
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B.—MAYER MUSEUM.

(a) GENERAL.

The principal event of importance was the acquisition of the Seton-Karr collection of Palaeolithic Flint Implements, from Thebes, and Neolithic Flint Implements found by him in the Eastern Desert of Egypt, some at a distance of about 30 miles from the Nile, and some nearer, details of which will appear in a future number of the *Bulletin of the Liverpool Museums*, and the interesting series of Metal Castings and Ivory Carvings from Benin City, West Africa, which will be described and figured in the *Bulletin* No. 2. Other additions to the collections have been made, as far as funds have permitted, and whenever an opportunity occurred.

To the continued generous assistance of Mr. A. Ridyard, Chief Engineer (S.S. "Niger"), the Museum is again indebted for a very large number of specimens, illustrative of West African Ethnography ; to the co-operation of Messrs. A. Forman, John Newberry, G. W. Stokes, S. Smith, H. L. Jones, and other friends in West Africa, who have kindly interested themselves in obtaining for this Museum specimens of the handiwork of the various tribes amongst which they are located ; and to the kindness of Messrs. Elder, Dempster & Co., for kindly allowing all goods to come freight free. The Assistant Curator, Mr. P. Entwistle, has been constantly employed in labelling specimens and in adding to them explanatory drawings and photographs, which add greatly to the interest and value of the collection. Additions of enlarged photographs illustrative of the Races of Mankind are being made as rapidly as they can be prepared.

(b) LOANS AND DEPOSITS.

The following objects were lent as below :—

The two under-mentioned Manuscripts have been lent to Dr. Priebisch, University College, :—

Psalter (German), 12th-13th century (M. 12004).

Breviary (German), 15th century (M. 12010).

The manuscripts lent to the Palæographical Society, University College, *i.e.*, "History of the World, Sacred and Profane," upon a roll of vellum 22 feet long, Italian? 13th century (M. 12017) ; and "Selections from the Fathers, SS. Augustine, Gregory, Anselm, &c.," English, early 14th century (M. 12036), have been safely returned.

(c) EXCHANGES.

An exchange was effected with Mrs. John Crosby Brown, of New York, of specimens of duplicate Musical Instruments, and of photographs of instruments in this Museum, *viz.* :—

- (1.) Double Iron Bell (2. 7. 72. 10.), Gaboon River, West Africa.
- (2.) Kroo-boy Rattle (9. 7. 95. 28.), Liberia, West Africa.
- (3.) Iron Bell (30. 8, 66. 22.), Central Africa.
- (4.) Photograph of a native with drum, Taupota, S.E. New Guinea.
- (5.) Photograph of a *Marimba*, from Bonny River, W. Africa.
- (6.) Photograph of a *Marimba*, from S.W. Africa.

(7.) Photograph of a Carajá Indian Trumpet.
in exchange for :—

Photograph of Central American Indian, and of Musical Instruments
(not yet arrived).

(d) ACQUISITIONS.

(1.)—GENERAL.

Coins and Medals :—

Impressions of the Seals used by the Urban District Councils of Toxteth Park, Walton-on-the-Hill, West Derby, and Wavertree, previous to their incorporation with the City of Liverpool, presented by the Finance and Estate Committee (27. 10. 97. 1.).

A collection (27. 4. 97. 34-37), consisting of two each of 10, 5, 2 and 1 Cēs of the Congo Free State : presented by Mr. A. Ridyard.

Six Mint Proof Silver English Coins of 1893 (27. 4. 97. 38), of the following denominations, *i.e.* :—5/- : 2 6 : 2/- : 1/- and 3d. : presented by Mr. B. L. Benas.

Seven English Jubilee (1887) Silver Coins (27. 4. 97. 39), of the following denominations, *i.e.* :—One each of 4/- : 2 6 : 2/- : 1/-; two of 6d. and one of 3d. : presented by Alderman N. J. Stolterfoht.

Half Farthing, Victoria, 1844 ; Model Quarter Farthing, 1848 ; Two Anna Piece, 1841 ; two 2 Cent and one 3 Cent U.S.A. Pieces of 1862 and 1865 ; three Half-dime Pieces 1863 and 1858 ; Bills for 1 Dollar, New York, 1776 ; one-sixth of a Dollar, New York, 1776 ; 12½ Cents, New York, 1815 ; Sixpence, Connecticut, 1776 ; Three Pounds, New Jersey, 1762 ; 12½ Cents, Poughkeepsie, 1816 ; an Assignat de cinq livres, Republique Française ; presented by Mrs. Crump, *per* Mr. A. B. Taylor (21. 12. 97. 201-214).

Silver Medals of Frederick VI., King of Denmark, and Carolina Matilda, Queen of Denmark and Gothland ; Medal commemorative of the marriage of the Prince and Princess of Wales ; Medallion of George Washington ; Electioneering Medallion, obv. : “*Roscoe for Ever*” ; Reverse : “*The Friend of the People*” ; Medal awarded “*To Mr. Peter Holland for the Best Drawing of an Academy Figure, 1781*,” Brass Medallion of John Rigg ; and a Bank Token “*Province of Canada*,” presented by Mrs. Crump, *per* Mr. A. B. Taylor (27. 12. 97. 194-200).

Bill for Two-thirds of a Dollar, Philadelphia, 1776 ; and one for Twelve Shillings, Philadelphia, 1777 ; presented anonymously (25. 3. 97. 1-2).

Miscellaneous :—

Two of the Old Liverpool Wooden Water Pipes, from excavations in Tithebarn Street (2. 12. 97. 1) ; presented by the Water Committee.

(2) CERAMICS.

Four Red Clay Tiles, various shapes, green glazed. Mediæval. From the Warrington Friary ; presented by Mr. T. Connor (11. 2. 97. 1-4).

Photograph of the Excavations at the Warrington Friary, showing the tiles *in situ* in the chancel ; presented by Mr. T. Connor (11. 2. 97. 5).

Four Delft-ware Painted Tiles, taken from the jambs of a fire-place in the Angel Inn, William Brown Street, Liverpool ; presented by Mr. A. Bowman (8. 10. 97. 1-4).

Black Basalt Wedgwood-ware Portraits of Raphael, Michael Angelo, and Livy ; a Biscuit-ware Wedgwood Medallion, symbolical of "Etruria, 1789" ; and two Casts of Wedgwood Portraits of Shakespeare and Garrick ; presented by Mrs. Crump, *per* Mr. A. B. Taylor (21. 12. 97. 188-193).

(3) ETHNOGRAPHY.

PRE-HISTORIC :—

A Small Collection (7. 7. 97) of Palæolithic Flint Implements, from Thebes, collected by W. H. Seton-Karr ; purchased.

Large Collection (7. 7. 97) of Neolithic Flint Implements, comprising various forms of Hammer and Celt-shaped heads, Cores, Scrapers, Knives, Armlets, &c., from the Eastern Desert of Egypt, collected by W. H. Seton-Karr ; purchased.

Deer Horn Pick (21. 12. 97. 187), with the original wooden handle attached, found in the Thames, figured in the "Daily Graphic" for December, 1896 ; purchased.

Collection (21. 12. 97. 23-166) of 144 Stone Implements :—Pounders, Celts, and Circular Stones, the latter most probably used in the manufacture of pottery, from various districts in the Island of Tobago, British West Indies, collected during the years 1890-7 ; purchased.

The following Peruvian objects were purchased :—Black Earthenware Huaco (28. 4. 97. 1), dug up 30 miles inland of Samanco ; Red Earthenware Whistle (28. 4. 97. 2.), in form of a bird, Chimbote ; Parts of Musical Instruments (28. 4. 97. 3-4.), 90 miles from Lima ; String of beads of various materials (28. 4. 97. 5.), Chimbote ; Rude Bronze Spoon (28. 4. 97. 6.) ; Bronze Casting in form of a double water vessel (28. 4. 97. 7.), dug up near Lake Titicaca.

MELANESIAN RACE.

Africa.—West and South-west Africa :—

List of specimens collected and presented by Mr. A. Ridyard, Chief Engineer, s.s. "Niger" (Elder, Dempster & Co.) :—

Horn Snuff Box, used by Mohammedans at St. Louis, Senegal (20. 8. 97. 21).

Fetish Figure, Timmene Country, Sierre Leone (20. 8. 97. 20).

Cocoanut Snuff-box, Accra, Gold Coast (1. 1. 97. 22).

Native Cloth, Lagos (20. 8. 97. 23).

From Rio del Rey :—Skin Shot-bag and Powder Flask (8. 12. 97. 14) ; Two Spears, Balundi (1. 1. 97. 19-20) ; Knife in Sheath, Balundi (1. 1. 97. 11). Man and Woman's Fetish Dresses of knitted string, dyed red and black, Egbo Country, Old Calabar [obtained at Rio del Rey] (1. 1. 97. 6-7).

From the Niger Coast Protectorate :—Hide Purse (1. 1. 97. 14), and Leather Purse (1. 1. 97. 15), Ilorin, Houssa Country ; Antimony (8. 12. 97. 32), used for colouring the eyelashes, and "Lalli" powder (8. 12. 97. 33), used for dyeing the finger and toe nails red, Kano, Sokoto Country.

From the Cameroons :—Grass Bag, Bali (8. 12. 97. 12) ; Earthenware Pipe Head, Boa (8. 12. 97. 41) ; Plaited Cane Hat, N'gola (8. 12. 97. 11) ; Plaited Straw Hat, made by Houssas at Cameroon (8. 12. 97. 10) ; Wooden "Ju Ju" Figures, Balong (8. 12. 97. 8-9) ; Plaited Grass Bag, used also for carrying children, Craebiddy (8. 12. 97. 7) ; Two Sceptres (?) made of split rattan (27. 4. 97. 8), and (20. 8. 97. 7) ; Model of a Canoe, with sets of rowers, &c. (20. 8. 97. 18) ; Rattle, made of nut shells, Mungo Creek (20. 8. 97. 17) ; Spear, head of iron, Banyang (20. 8. 97. 16) ; Knife, Banyang (20. 8. 97. 15) ; Model of a Saw-fish, made at Klein

Batanga (20. 8. 97. 14); Rudely-carved Figure of a European (27. 4. 97. 7); Ornamental Hat (1. 1. 97. 5); Wooden Figure of an Alligator (1. 1. 97. 4); Ten Spears, Jannde, Batanga (27. 4. 97. 9-18); Fisherman's Canoe, with paddles and fishing lines, Batanga (27. 4. 97. 1).

From the Ogowai River, Gaboon:—Red and White Powder, used by the "Ju Ju" men for painting themselves during their ceremonies, Bapingi (8. 12. 97. 34-35); Grass Mat, Bapingi (8. 12. 97. 28); Fly Brush (27. 4. 97. 2); Bow and Four Arrows (8. 12. 97. 25).

From the M'pongwe Country, Gaboon:—Wooden Drum (20. 8. 97. 10); Male Figure, "the great grandfather to the King of M'bia," Bata (20. 8. 97. 11); Female Figure, "the great grandmother to the Queen of Sambalah," Bata (20. 8. 97. 12); Female Figure, "the Goddess Boomudi," Bata (1. 1. 97. 2); Two Iron War Knives, Gama, of Bata (1. 1. 97. 17 and 18); Iron Spear Head, Boomudi, Bata (1. 1. 97. 12); Ivory Hair Pin (8. 12. 97. 18); Wooden Female Fetish Figure (1. 1. 97. 1); Kroo-boy's Harp, "*Cannie*," Cape Lopez (1. 1. 97. 8).

From Sette Kama:—Whip, the tail of the sting ray (8. 12. 97. 20); Carved Wooden Stick, Copa (8. 12. 97. 19); Plaited Grass Cap, Achilla (1. 1. 97. 13); Plaited Grass Cap, Cabenda (8. 12. 97. 27).

From Mayumba:—Cap, made up of feathers, used in the dance (20. 8. 97. 3); Wooden Mask, in form of a human face (20. 8. 97. 2); Opium Pipe, a gourd with earthenware bowl (20. 8. 97. 1); Wooden Fetish Figure, Chica Chicamba (27. 4. 97. 5).

From Loango, Congo Français:—Plaited Grass Cap (8. 12. 97. 26); Bottle, covered with plaited grass (27. 4. 97. 4); Grass Cap (27. 4. 97. 3); Musical Instrument, *Salmbi* (1. 1. 97. 9); Walking Stick, the top in form of a closed hand, Lower Quillo River (20. 8. 97. 4).

From Landana, Portuguese Congo:—Figure of a Kneeling Female, painted (20. 8. 97. 6); Fetish, *Fulemaconda*, said to attack its victims with dropsy and sleeping sickness (20. 8. 97. 7); Fetish, *Chicoca*, said to attack its victims with rheumatism and syphilitic sores and swellings (20. 8. 97. 8); Fetish, *Mabialla Maupauha*, said to attack the brain, rendering its victims idiots (20. 8. 97. 9).

From Upper Congo :—Brass Hair Pin (8. 12. 97. 31), and Two Iron Hair Pins (8. 12. 97. 29-30), Djabbir ; Battle Axe (8. 12. 97. 24) ; Three Arrows, with barbed iron heads, Aruwimi, (8. 12. 97. 21-23) ; Terra-cotta Water Cooler. Kinchassa (8. 12. 97. 17) ; piece of iron used as a coin for buying slaves, ten of these pieces are value for a boy and twenty for a man, Bobangi (1. 1. 97. 16) ; Terra-cotta Water Vessel, *Ekezza*, Bacunje, Lodema, old caravan route to Stanley Falls (8. 12. 97. 16) ; Drum of Wood, the ends covered with hide, length 8 feet 11 inches, N'dunga, *en route* to Stanley Falls (1. 1. 97. 3) ; three Arrow-heads of Iron, serrated, Stanley Pool (20. 8. 97. 5) ; Wooden Figure of a Woman and Child, Mayombi (8. 12. 97. 15) ; Miloango Fetish, Mussurongo tribe, Noqui, River Congo (8. 12. 97. 13) ; Spear, Ukaka (1. 1. 97. 21) ; Quiver (imperfect), and twelve Iron-head Arrows (8. 12. 97. 36) ; piece of Hippopotamus Hide, from which whips are made (8. 12. 97. 37).

The following specimens from Bali, Cameroons, were collected and presented by Messrs. A. Forman, Rio de Rey (27. 4. 97. 22-33) & (8. 12. 97. 5) ; and Mr. H. L. Jones, Rio del Rey (20. 8. 97. 27-43) ; *per* Mr. A. Ridyard :—

Four Spears ; Large Jug-shaped Gourd Water Vessel ; Double-edged Knife ; Cap, made of pine-apple fibre, dyed black ; Jug of red earthenware ; Seven Earthenware Pipe Heads, red and black glazed, most of them in form of grotesque human figures wearing head dresses, and some having wooden and brass stems ; Wooden Mask ; Musical Instrument ; Spear ; Knife with wooden handle and leather sheath ; Wooden Paddle ; Triple-headed Wood Figure ; two Plaited Grass (?) Caps, dyed black ; Square Wooden Staff ; Four Earthenware Pipe Heads ; two pair of Brass Armlets ; Wooden Figure of a Man, Barrombi, Cameroon ; two Wooden Masks in form of a human face, Old Calabar.

The following specimens from the Cameroons were collected and presented by Mr. S. Smith (8. 12. 97. 1-4, and 39 and 40) ; *per* Mr. A. Ridyard :—

Helmet of plaited cane ; Basket ; Bow and Arrows ; Chief's Ebony Stick ; three Spears, with barbed iron heads.

The following specimens from Batanga, Cameroons, were collected and presented by Mr. John Newberry (13. 7. 97. 2-7) ; *per* Mr. A. Ridyard :—

Wooden Figure of a Man, two Ivory Armlets, Necklet made up of semi-circular Brass Rods; two Brass Neck Ornaments.

Collected and presented by Mr. W. G. Stokes, *per* Mr. A. Ridyard:—

Two Head-dresses of plaited human hair, on the sides are flaps formed of strips of cane with the hair plaited over them, and decorated with trade buttons, Mouni River, M'pongwe Country (20. 8. 97. 24-25); Wooden Stool, the top supported by a kneeling female figure, Batanga (20. 8. 97. 26); pair of Blacksmith's Bellows (8. 12. 97. 6).

The following interesting specimens of metal castings and ivory carving, from Benin City, have been acquired by purchase, a full account of which will appear in "*The Bulletin of the Liverpool Museums*," No. 2:—

Metal figure of a Leopard, covered with circular raised rings filled with amber-coloured pastes (21. 12. 97. 3); metal figure of a Man, standing on a raised platform, on which are Armillæ, a mask, &c., he is wearing a helmet and leopard-skin garment, and holds a flint-lock gun in his hands (21. 12. 97. 4); rudely-carved kneeling figure of a man, in ivory (very much weathered) height $20\frac{1}{8}$ inches (21. 12. 97. 5); three figures carved on a semi-circular piece of ivory (21. 12. 97. 6). A King (?) with two attendants supporting his arms, height $4\frac{1}{8}$ inches, width $3\frac{5}{8}$ inches; Two Wooden Combs (21. 12. 97. 7-8); Metal Pipe Head (14. 2. 97. 1); Four Metal Figures (7. 10. 97. 1-4) of Kings wearing coral garments and having spikes in the base for supporting them on the ground; small metal figure of a Woman (7. 10. 97. 5), holding a fan or fly flap in her right hand, legs broken off; Two Metal Heads, supports for tusks (7. 10. 97. 6-7); Metal Lid of a Box, with representation on it of three figures, a King or Chief attended by two arm supporters (7. 10. 97. 8); Carved Ivory Tusk and Armlet (7. 10. 97. 9-10); Group of Figures in Brass, Benin? (23. 11. 97. 1).

Wooden Staff, Sapelli, Benin (4. 5. 97. 2), and Knife, in leather sheath, Bida, Nupé, Niger (4. 5. 97. 1); presented by Mr. R. Wade.

Curved Club, the head beautifully carved in geometrical designs, Woyoa make, from the Manganja Country, purchased (30. 3. 97. 3).

Two Wooden Staves (30. 3. 97. 1-2).

South Africa:—

Photographs of Female Hottentot (19. 8. 97. 1), and of a Hottentot Boy (19. 8. 97. 2); presented by Mr. James Gribble.

Australia :—

Raft of cyprus pine logs (9. 1. 97.), used only by natives of King's Sound, Australia, figured in J. Saville-Kent's "*Naturalist in Australia*"; presented by Mr. J. Edge-Partington.

New Britain :—

Mask, formed of a human jawbone and the frontal part of a human skull, completed in wood and painted (21. 12. 97. 2), Niouafau; purchased.

Polynesia.—New Zealand :—

Jade Celt, showing method of rubbing (?) down the implement (11. 5. 97. 2); purchased.

MONGOLIAN RACE.**America.—South :—**

Two Photographs of Carajá Indians, of the River Araguaya, State of Goyaz, United States of Brazil (17. 3. 97. 1-2); presented by Mr. J. A. MacDonald.

North :—

The following specimens (9. 2. 97. 1-18) from the Eskimo of the Pribylov Island, Aleutian Archipelago, have been acquired by purchase:—

Pick, the head made of walrus leg bone; Grapple, of wood, with three iron barbs; two pairs of Snow Spectacles; three Knives, steel blades and wooden handles; Ivory Sinker, with bone fish hook attached; Skin Dressing Implement; Ivory Mesh Gauge for Nets; Knife made of the fibula of the bear; Ivory Net Sinker, carved in form of a whale; piece of Bone, carved in form of a fish-like animal; piece of Ivory, carved in form of a whale; Ivory Comb; Bird Snare made of whalebone; Wooden Pestle and Mortar; Pouch, made of swan's feet stitched together, an ivory hook suspender and piece of carved bone are attached.

The following Photographs of North American Indian Chiefs and Squaws (21. 12. 97. 167-186), have been purchased for the Collection :—

Photographs of *Floating Feather*; a Chief (no name); *Long Dog* and his Squaw; *Rattlesnake Jim*; Blood Indians and Squaw; Medicine Men; *Black Hawk*, Apaches; *Whirlwind*, Cheyennes; *Bird Chief*, Arrapahois; *Now Way*; and *Horseback's Son*, Comanches; Squaws of the Wachita; *Big Tree*; *Big Bow*; *White Horse*; Braves and Squaws of the Kiowas.

Madagascar—

Tanala :—A Collection (8. 2. 97. 1-50) of objects from Madagascar was acquired for the Ethnographical Gallery by purchase, as follows :—

Wooden Box, *Vata tantely*, used for carrying honey ; Axe, used as a weapon in Southern Betsileo ; Cane Blow Pipe, *aféra* Ivohimanistra ; Wooden Plate, Ambrlimitambr ; Waterproof of plaited grass ; Cane Flute, *sodina* ; Hat of plaited grass, *sátroka bory* : Wooden Spoon, Ambohimanga ; seven Arrows for use with the blow pipe ; two pieces of Bark of the *Nato*, used for dyeing, Ambohmistambo ; Bark of the *nazo manta*, used for dyeing ; Shield of wood, *ampinga*, Ivohimanistra ; Fruit of the poisonous *tagena*, sold as a medicine in the open Markets, Ambositra.

Betsileo :—Iron Spade ; Axe, *ahatsy* ; Large Wooden Spoon ; Pair of Scissors ; Twelve Iron Needles ; Cane Snuff Box, with burnt decoration ; Frame, made of plaited grasses ; Fan, of plaited grass ; Two Wooden Spindles, with bone whorls, *mostoko* ; Knife, with long blade ; Native Silk ; Wooden Comb, *fihogo* ; Terra-cotta Pomade Box, red glazed ; Bamboo Wooden Water-cup, *Kampoaka* ; Mat, of plaited grass ; Wooden Spoon, Ambositra ; Woman's Hair Brush, *kifafa* ; Terra-cotta Gourd-shaped Water Bottle, Ambositra ; Terra-cotta Red-glazed Water Bottle ; Hold-all, made of woven grass, dyed, Ambohimatrasoa ; Knife, steel blade ; Shell and Bead Armlet, *felana* ; Straw Cap, covered with the skin of *Propithecus diadema*, var. Edwardsi, Ambositra ; Two Earthenware Plates ; *Voafano* Beans, used by the wizards ; Rope of *rófia*, *tády* ; Leather Purse, Hova ; Silver Breast Pin, in form of a leaf, Hova ; Piece of Native Soap ; Forceps, for pulling out hair, *fiávotra* ; Afotra bark ; Rofia, used for rope making ; Earthenware Bowl (imperfect) ; Walking Stick, of black wood, horn knob.

Malay Achipelago.—Sumatra:—

Wooden Mask, in form of a grotesque human face ; presented by Mr. E. M. Janion (23. 1. 97-1).

Two Models of Native Houses ; presented by Mr. E. M. Janion (23. 1. 97. 2-3).

Borneo :—

The following specimens from N. Borneo (21. 12. 97. 9-22) have been purchased :—

Knife, Dusun ; Brass Chain Belt, Dusun ; Tools of Wood used in

the manufacture of Pottery, Dusun ; Penang Basket ; Wooden Spinning Tops with strings, Dyak, Balo ; Harpoon Head, Dyak, Sarawak ; Medicine Man's Charm Basket, Dusun ; Rattan Belt, Dusun ; Model of a Wood Fishing Float, Malay or Dyak, Kuchin, Sarawak ; Fibre.

Lombok :—

Figure of a Woman in wood, painted, *Tjakra Negara* (21. 12. 97. 1) ; purchased.

Burmah :—

Sanscrit Manuscript (11. 5. 97. 1) (imperfect) ; presented by Dr. A. Knox.

Siam :—

Reed Musical Instrument (23. 11. 97. 2) ; purchased.

Tibet :—

The following specimens (9. 10. 97. 1-17, 20-22 and 26), from Tibet, have been acquired by purchase :—

Conch Shell, used by the Llamas in their temple service, and also for summoning the ghosts of the dead ; Hand Drum, *damāru*, used for calling and driving away evil spirits ; Prayer Wheel, *mani* ; Wooden Block from which the prayers placed in the prayer wheels are printed ; Llamas' Rosary, *Rak-sha*, made from seeds ; Brass Household God, inlaid with turquoise, made in Lhassa ; Woman's Brass Locket inlaid with turquoise ; Pair of Women's Brass Earrings, inlaid with turquoise ; Woman's Brass Girdle Belt, with chain attached ; Charm, worn by a Nun ; Brass Charm Holder ; Brass Bowl, made in Lhassa ; Lamas Bronze Bell, *Tilbre*, used in the temple service ; Brass Seal with steel die ; Lamas Dorjé ; Leather Purse ; Silver Coin ; Dagger, used by necromancers, and when consecrated is said to become enchanted ; Bag of Woven Material ; Wooden Bowl, used for holding food and drinking tea from ; Photograph of an old Tibetan Woman, and of a group of Tibetan Men and Women dressed as Devil Dancers.

CAUCASIAN RACE.

Egypt :—

Flint Knife, Ancient Egyptian, 4th Dynasty (?) (13. 7. 97. 1).

The following Ancient Egyptian Objects (4. 10. 97. 1-15) found at Deshasheh, by Professor W. M. Flinders Petrie, D.C.L., were presented by the Committee of the Egypt Exploration Fund :—

Wooden Coffin or Box for holding the mutilated members of various human bodies; two Wooden Mallets; Wooden Plug or Wedge, *v.* 86; Wooden Headrest, *v.* 14; piece of Wood, *v.* 109; Fragments of Mummy Cloth, 99, 104 (?), 148B; two Metal Mirrors, very much corroded, 14, 36; Diorite (?) Bowl (broken and repaired); String of Beads, amethysts, garnets, and carnelian; Base of a Seated Figure in calcareous stone; Small Seated Figure, carved in calcareous stone (imperfect).

Foot Rubber of red clay, in form of a crocodile, Modern (9.3.97.7); purchased.

Babylonia :—

Fourteen Baked Clay Tablets (27. 7. 97. 1-14), from Bagdad; purchased.

Nepal :—

Photographs of a Group of Bhutia Men born in Sikkim, and of Nepalese Men and Women (9. 10. 97. 24-25 and 28); Bird-shaped Copper Kettle, used by Silversmiths, and a Silver Coin, Nepalese (9. 10. 97. 18 and 23); Brahman's Sacred Thread (9. 10. 97. 19).

Italy :—

Marble Urn (6. 10. 97. 5); purchased.

Head Ornament for Horses, made of Macaw feathers; Rosettes of Dyed Straw, used for decorating horses' manes, Ischia work; Silver Crescent-shaped Amulet, and four Coral and Bone Amulets, from Naples (6. 10. 97. 1-4); presented by Mr. L. H. Picton.

Cyprus :—

A collection of Cypriote Antiquities, purchased (9. 3. 97. 1-79), of various ages :—

I.—POTTERY.

A.—Bronze Age, B.C. 2000-1000.

a.—Red Polished Ware :—

Three Vases, with incised patterns; Vase, a black variety of the red polished ware; Bottle and Vase of inferior fabric.

b.—White Painted Ware, B.C. 2000 :—

Three Vases and Four Bottles; an *Ænoché* and a Double Bottle; Vase, (*cf* Perrot and Chipiez, *History of Art in Phœnicia*, vol. 2, page 285); Vase, in form of a goose.

c.—Base Ring Ware; probably made in Cyprus :—

Vase, genuine fabric; Vase, probably from Agra Paraskevi, near Nicosia; Bull-shaped Vase; Terra-cotta Figure.

B.—Græco-Phœnician Age, B.C. 1000-295 :—

a.—Bucchero and Black Slip Wares :—

Miniature specimen of the very rare genuine Cypriote Bucchero, VIII-IX. cent. B.C.; Cœnochræ, white with black slip in imitation of Bucchero, VIII-IX. cent. B.C.

b.—Red Ware, VIII-VII. cent. B.C.

Vase; Cœnochræ; Vase, a black variety; Vase, a late survival of an inferior fabric, VI-V. cent. B.C.

c.—White Painted Ware :—

Cœnochræ of the finest local fabric of Kition (Larnaka), VII-VIII. cent. B.C.; Rhyton, VI-V. cent. B.C., doubtful if genuine Cypriote.

C.—Hellenistic Age: from the Ptolemaic Conquest onwards :—

a.—Red Pseudo-Samian Fabric :—

Two Jugs and a Vase, Roman; Small Vase, a clay imitation of glass (II-V. cent. A.D.); Two Lamps (II-III. cent. A.D.); Lamp (IV. cent. A.D.); St. Menas Flask, Christian.

II.—SCULPTURES AND TERRA-COTTAS.

a.—Snow-man technique, VII-VI. cent. B.C. :—

Figure of a Lyre Player, a votive or funerary figure, Kition or Amathus; Model of a chariot in which are three figures; Two Masks, for suspension as a votive offering in a tree sanctuary, Amathus fabric (?); Ass, with panniers; Ram, VI. cent. B.C.

b.—Archaic Greek Influence, VI-V. cent. B.C. :—

Very finely-modelled flower-bearing votary of a common type, but excellent finish; traces of red paint on the shoes, (early V. cent. B.C.), Flower-bearing Votary (V. cent. B.C.).

c.—Hellenistic Influences, IV-III. cent. B.C. :—

Fragment of a Moulded Terra-cotta; Small Stone Head of a Man, painted red (IV. cent. B.C.?).

III.—BRONZES.

Osiris, Egyptian work (VI-V. cent. B.C.); Apis, Egyptian work (V. cent. B.C.); Isis and Horus, probably Syrian (VI-V. cent. B.C.); Isis and Horus (formerly gilt), a Cypriote imitation of Egyptian (VI-V. cent. B.C.).

IV.—PORCELAIN AND MISCELLANEOUS ORNAMENTS.

Scarabs and Bead of Egyptian style, imitated in Cyprus, VIII-VI. cent. B.C.; Scarabs (one representing a hunting scene), Cypriote; Scarab, of Unas, Egyptian 5th Dynasty (3500 B.C.); Scarabs. Cartouche of Thothmes III.; Porcelain Finger Ring, 18th Dynasty (1450 B.C.); Porcelain Charm Pendants VIII. cent. fabric; Beads, various, Egyptian; Gem, red jasper, in intaglio, Head of Flora, Græco-Roman, II-III. cent. A.D.; Small female head in limestone; Unguentarium, in alabaster, containing calcined bones; Head of Jupiter Serapis, in alabaster.

SUMMARY OF ACQUISITIONS.

General	...	...	...	...	...	...	23
Ceramics	...	...	...	...	...	...	12
Ethnography	...	...	...	...	...	...	2,405
							<hr/>
							2,440
							<hr/>

SCIENCE CABINETS FOR SCHOOLS.

These Cabinets, as in previous years, have been distributed in rotation to different Elementary Schools in the City, and also to the Training Colleges for Teachers at Edge Hill and the College of the Notre Dame, Mount Pleasant. They have been carefully examined every month, and, when necessary replenished.

HENRY O. FORBES,
DIRECTOR OF MUSEUMS.

PRESENTED

17 JUN. 1904



FORTY-SIXTH

ANNUAL REPORT

OF THE COMMITTEE

OF THE

PUBLIC LIBRARIES,

MUSEUMS,

AND

ART GALLERY,

OF THE

CITY OF LIVERPOOL,



FOR THE YEAR ENDING 31ST DECEMBER, 1898.



LIVERPOOL:
J. R. WILLIAMS & CO., PRINTERS, 8, SCHOOL LANE.

1899.

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COMMITTEE AND OFFICERS

FOR THE YEAR 1898-99.

THE RIGHT HONOURABLE WILLIAM OULTON, J.P., LORD MAYOR.

Committee.

ALDERMAN SIR WILLIAM B. FORWOOD, J.P., CHAIRMAN.

M. HYSLOP MAXWELL, JR., ESQ., DEPUTY CHAIRMAN.

EDWIN BERRY, ESQ.,	JOHN LAWRENCE, ESQ.,
LIEUT.-COL. A. H. BROWN, M.P.,	JOHN LEA, ESQ.,
ALDERMAN A. COMMINS, LL.D., M.P.,	FRANK J. LESLIE, ESQ.,
ARTHUR CROSTHWAITE, ESQ.,	ALDERMAN A. T. SALVIDGE, J.P.,
ROBERT D. HOLT, ESQ., J.P.,	RADCLIFFE W. SMITH, ESQ.,
MORRIS P. JONES, ESQ., J.P.,	ALDERMAN J. N. STOLTERFOHT.
GEORGE KING, ESQ.,	COLONEL W. H. WALKER.

Chief Librarian:

PETER COWELL.

Deputy-Librarian:

THOMAS FORMBY.

Director of Museums:

HENRY O. FORBES, LL.D., F.R.G.S.

Assistant Curator of Derby Museum:

JOSEPH A. CLUBB, M.Sc.

Assistant Curator of Mayer Museum:

P. ENTWISTLE.

Curator of the Walker Art Gallery:

CHARLES DYALL.

GENERAL REPORT.

The past year has been one of steady progress in all departments of our library work. In our Reading Rooms there is a noticeable increase in the number of magazines and reviews issued, and this departure must be taken as an indication of the increasing desire to obtain information and scientific knowledge in a brief and condensed form, and it must be viewed with satisfaction, as the short magazine articles are taking the place of the novel and serial story. The Branch Libraries and Reading Rooms are doing a most excellent work, and some idea of the public appreciation of our Branch Libraries may be gathered from the fact that last year these libraries issued over a million volumes for home reading, whereas nine years ago, when we had only two branch libraries, the number issued was only 324,957 volumes.

It is a matter for sincere regret, that the Bill intended to be introduced into Parliament, which, *inter alia*, provided for an increase of the Library Rate from 1d. to 1½d. in the pound, for the extension of our libraries, was wrecked by the adverse vote of the ratepayers, and the Committee is therefore prevented from going forward with their policy of establishing further branch libraries. The Committee cannot believe that this vote was intended to defeat this good and popular object, and, with the sanction of the Council, will, at an early date, bring their proposals more directly before the ratepayers. Liverpool is the only important city in the United Kingdom which is content with a rate of only 1d. in the pound for library purposes. With the income which this furnishes, it is not possible to make any adequate provision of libraries or reading rooms; and libraries and reading rooms have, with the advance of education, ceased to be luxuries, they are essential for the healthy intellectual life and well-being of the community, and it will be little short of a scandal if Liverpool is allowed to lag behind the other great centres of population in the development of her library system.

Our Reference Library is receiving increased attention, and the Committee are anxious to maintain its high reputation. Perhaps the extent to which this Library is availed of is scarcely known. From early morning to late at night it is filled with from 200 to 300 serious students—professional and scientific men, schoolmasters, clergymen, writers for the daily

journals and periodicals make constant use of it, and many original works of scientific and historical importance owe their existence to the researches made in this Library; and it is something gained in this city of "market reports and nautical intelligence" that we should have a band of original workers in literary and scientific subjects, and we may hope that in time Liverpool may take a position in literature and in science, as we believe it has already done in art.

The extension of the Winter course of lectures to the outer districts has met with great success. Fifty-one lectures were delivered, with an average attendance of nearly 1,000. The living voice is an educational power perhaps even greater than books, and enlists the attention of those who have not the faculty for serious reading of any kind. The Committee are careful that their lectures, while being entertaining, are at the same time instructive.

The Museum has been well attended, and it is gratifying to record that the numbers exceeded those of the British Museum. The scientific staff are still fully occupied in classificatory work, in order to have the exhibits ready for the new galleries when completed.

In conjunction with the authorities of the British Museum, the Committee took part in an expedition to Socotra, under the charge of their Director, Dr. Forbes, which has recently returned, after a very successful journey. The Committee welcomed this opportunity of co-operating with the British Museum, as it may lead to reciprocal advantages of great value.

The Autumn Exhibition of Pictures was a brilliant success. The pictures were of an unusual high character, and the hanging exceptionally good, and although the attendance was rather disappointing, the sales made of pictures were considerably above the average.

The Permanent Gallery continues to grow, and further accommodation must be shortly provided.

WILLIAM B. FORWOOD,
CHAIRMAN.



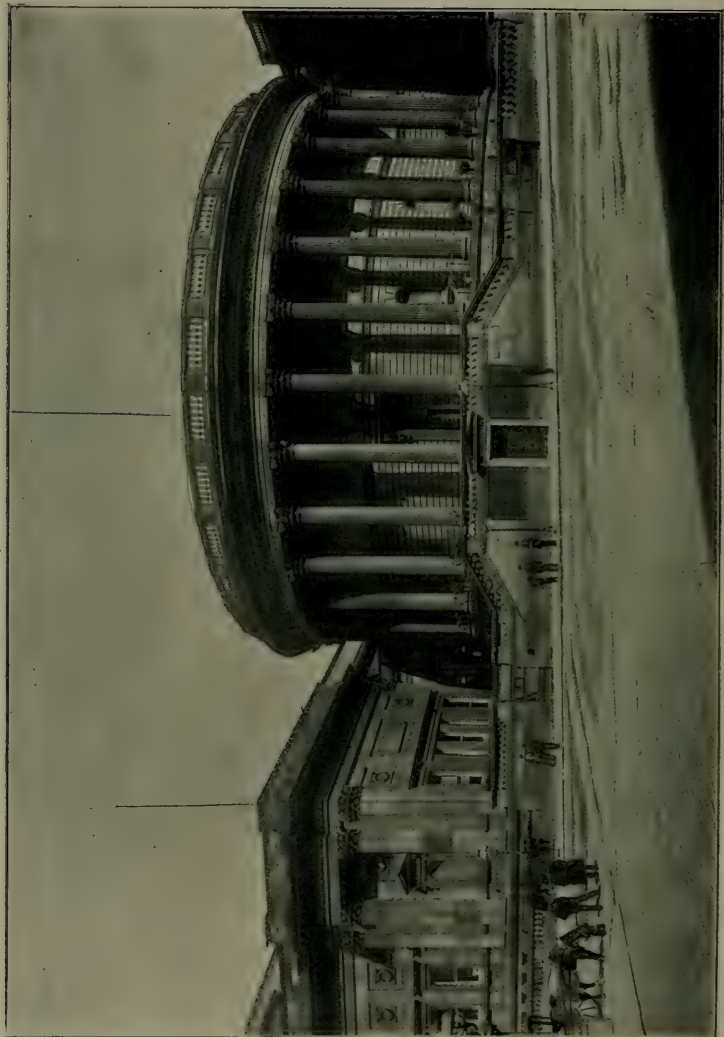


PHOTO BY BROWN, BARNES & BELL.

REFERENCE LIBRARY,

SHOWING THE PICTON READING ROOM AND EAST WING OF LIBRARY AND MUSEUM ERRECTED BY SIR WILLIAM BROWN.

LIBRARY DEPARTMENT.

CHIEF LIBRARIAN'S REPORT.

As nearly half a century has now passed away since the first steps were taken to establish the Liverpool Public Library, a few historical facts connected therewith will no doubt be read with interest by friends both at home and abroad. And those who are familiar with the humble beginnings of the Institution will view with pleasure and surprise its present-day development, as exhibited by the accompanying views of the Reference Department and some of its Branch Libraries.

Towards the end of 1849, attention was first directed to the need of a public institution in Liverpool where documents, &c. could be consulted; and, as a result of this expression of public opinion, Councillor (afterwards Sir) James A. Picton, in April of 1850 (the year in which Mr. Ewart's Public Libraries Act was passed), submitted a motion to the Town Council that "A Committee be appointed to enquire and report on the propriety of establishing a Free Public Library in the town of Liverpool." That motion being approved, a committee of enquiry was formed for the purpose named, its deliberations resulting in a favourable recommendation to the Council. The public meeting subsequently called was marked by many manifestations of earnestness on the part of the public for the establishment of a public library, practical support of the movement being shewn by the voluntary contribution for library purposes of nearly £1,400 and some 4,000 volumes. The scheme being thus countenanced by both Council and public, these subscriptions were duly transferred to the Corporation by the preliminary Committee; and measures were forthwith taken to carry the wishes of the inhabitants into effect. In 1851 the thirteenth Earl of Derby died, bequeathing to the town his valuable and extensive collection of natural history objects. To carry out the conditions attached to the gift, the Corporation obtained a special Act of Parliament, which, in its title, "An Act for establishing a Public Library, Museum, and Art Gallery at "Liverpool," laid down the lines upon which the Committee of this Institution has never ceased to work and keep before it. The collection of books then made by the Corporation Committee was housed in a building in Duke Street, and on the 18th October 1852 the Reference Library was

opened to the public: the total number of volumes then being 8,296. Few institutions have been more favoured than this with noble and generous gifts. The first of our benefactors was the late Sir William Brown, Bart., who, by the offer in 1853 of £6,000 (afterwards increased in 1856 to £12,000), endeavoured to spur the Corporation into taking speedy measures for the erection of a free library of such proportions as would be a credit to the town architecturally, and which, internally, would afford that accommodation which had become a pressing necessity. His generosity went even further; and, jealous of delay, and anxious to see erected during his lifetime a free public library worthy of the greatness of Liverpool, he addressed, on the 31st December, 1856, the following letter to the Mayor:—

“My dear Sir,—I have been long desirous that Liverpool should have a free public library and museum worthy of the town, where the inhabitants—be their position in life what it may—can resort for intellectual improvement; and, as some of my relatives and friends have expressed a wish that I should build one and present it to my fellow-townsmen, I am prepared to do so on the site provided by the Corporation. I have no wish to interfere with the resolution the Council have already come to, of leaving the plans in the hands of the Corporation Surveyor. Probably it will not be unreasonable for me to hope and expect that, in some way or other, my name will be connected with it, to show that I have endeavoured to be useful in my generation; and possibly it may encourage others who have the means to contribute to useful public works, and that some of my family or executors may be continued on the Managing Committee.

Ever yours respectfully,

WILLIAM BROWN.”

The burden of cost being thus removed from the shoulders of the Council, invitations were issued to architects for plans for a suitable building, and a premium of 200 guineas was offered for the best design submitted. In the competition which followed, preference was ultimately given to the designs of Mr. Thomas Allom, an architect of some eminence in the literary as well as the art world, and whose works are worthily represented on the shelves of our library. This important matter decided, and all preliminaries arranged, the foundation stone of that part of this Institution known as the Brown Library was laid on the 15th April 1857 by Sir William Brown; and, the building having been completed, it was opened to the public on the 18th October, 1860, the occasion being marked by no little ceremony and many expressions of public satisfaction.



BROWN READING ROOM.



PICTON READING ROOM.



After the passage of some years, during which time the Reference Library had grown, prospered, and increased in usefulness beyond all expectation, the need of an extension to the library forced itself upon the consideration of the Committee. Not only was further space required for the rapidly-increasing stock of books, but increased accommodation was urgently needed for readers, particularly for that class denominated "student" readers. For some years one of the smaller book-rooms had been furnished with tables and chairs for the special convenience of those readers who came for study and literary work. The *entrée* of this room was obtained on written application to the Library Committee, who, being satisfied with the object the applicant had in view, issued a ticket entitling him to the use of the room for twelve months. This room became very popular, on account of its seclusion and the privileges allowed in it, which were not permitted to readers in the general reading room. It invited and encouraged at the outset a class of readers which has increased in numbers ever since—readers who came for literary work and investigation, or self-education, and not merely for light and recreative reading. To overcome the difficulty thus presented to the Committee, it was determined to erect a new reading-room on the vacant land between the Brown Library and Walker Art Gallery, and the Council having sanctioned the proposal submitted by the Libraries Committee, a circular reading-room was built by the Corporation, and named the Picton Reading Room, in recognition, by the Council and the people of Liverpool generally, of the long and devoted service to this Institution of Sir James A. Picton.

It may be of interest to mention here the lines on which the Reference Library has been built up. Though the Committee has during the long period of the library's history, kept steadily in view the provision of standard works, both British and foreign, in all departments of learning and embracing as far as possible all branches of human inquiry, particular attention has been given to certain subjects: with the result that in the departments of Architecture and the Fine Arts generally, in Natural History, in the literature of geographical investigation, and in regard to books bearing upon those commercial and maritime affairs peculiarly valuable to the inhabitants of a great seaport, the Liverpool Public Library may justly claim to possess an unusually rich collection. The topographical section is also very extensive; while it may be said that, as regards local illustrations and publications, pains have not been spared, even from the foundation of the library, to gather together what is perhaps at this moment the finest and most valuable collection of the kind in the country. A decided impulse

was given to the collection and preservation of such prints and documents as would serve to illustrate the history of Liverpool and Lancashire, by the purchase, some forty years ago, of a very large number of maps, original drawings, views, portraits, &c. relating to the County Palatine; and, from that time forward, additions to the collection have been made not only manuscript and printed matter being gathered, but drawings being expressly made for the Committee of such ancient and notable buildings as were to be demolished for purposes of street improvement.

In accordance with the scope of the work of a public library sketched out in the original special Act of Parliament, lectures formed a part; and in the building erected by Sir William Brown, a lecture hall holding about 400 people was provided. On Jan. 19th 1866 free lectures were inaugurated: the earliest series being chiefly upon scientific subjects, including natural philosophy, zoology, geology and mining, the non-metallic elements, chemistry and metallurgy, practical perspective, decorative art, &c. Later on, a more popular element was introduced into the lecture series, in order to provide for the lesser studious section of the public. The success which attended the delivery of lectures in this smaller lecture theatre led to the construction of a new lecture hall, accommodating 1,500 persons, in the basement of the Picton Reading Room. This hall was opened on January 3rd 1882 by a lecture on "Our Municipal Institutions: their past and future," with an attendance of 603. From the time when the free lectures were first delivered, each returning Autumn and Winter have had their varied courses of these aids and incentives to reading and study provided by the Committee, who view their delivery with much interest and satisfaction. The average attendance at the free lectures to-day is 1,274.

In 1853, two branch lending libraries were established in a tentative way for the issue of books for home reading; and some years later five (now reduced to three) evening reading rooms were opened in various school rooms, provided with a liberal supply of magazines and newspapers. It was not, however, until the election of the present Chairman, Sir William B. Forwood, that these auxiliary libraries received due attention. Since then four new branch libraries have been opened and several others projected. Women and boys' rooms have been provided in several of the libraries, and a careful selection of juvenile literature placed on the shelves, calculated to please and instruct the numerous young readers and satisfy the wishes of their parents and guardians.



KENSINGTON BRANCH LIBRARY.



EVERTON BRANCH LIBRARY.



Notes on the Statistics.

The general work of the various libraries calls for no special comment. The number of volumes issued in the Picton Reading Room are less than the previous year by 7,001, but this is counterbalanced by an increase of 15,867 in magazines and reviews. This is the tendency of present-day reading. It must be observed that no novels are issued in this room, nor yet magazines whose chief feature is the serial stories they contain. The total readers who used the Picton Reading Room during 1897 numbered 216,000; last year they were 66 less. The classes which show the greatest increase this year are Education and Language, 1,641 volumes; Natural Philosophy and Mathematics, 674 volumes; Latin and Greek Classics, 485 volumes; Encyclopædias, Dictionaries, and works of General Reference, 1,433 volumes. There has been a marked decrease in books issued in the Brown Reading Room, to the extent of 45,694 volumes, which means novels and magazines in volumes. And the newspaper readers are less by 36,301. This is largely, if not wholly, accounted for by the closing of this room 24 working days for painting and cleaning, the improved state of trade (for this room indicates the state of the shipping trade in a very marked degree), and the remarkably fine Autumn of the year. The directories used have increased by 17,873 volumes. Here in this room magazine literature shows an increase of 27,993 issues. Notwithstanding the hindrances mentioned, the actual work of the whole of the Library shows an increase of 51 issues. The newspaper readers come and go without affecting the staff to any appreciable extent.

With the growth and extension of the City, the Branch Libraries have become more and more popular and centres of reading. Much of the increase is due to the establishment of additional branch libraries. In 1890, when only two branches existed, the issue of books for home reading was 324,957, while last year it was 891,236, and adding the books read in the reading rooms of these branches, the volumes issued amount to a total of 1,038,746. Some cavilling has always existed at the great issue of novels, but until the reading of fiction of approved merit is proved to be detrimental to character and injurious to the community, the reading of fiction may, to put it in a mild way, be accepted as much better than no reading at all. If it can supersede or prevent the reading of much periodical literature which is absolutely deleterious, a great gain will have been achieved. The rapid way which novels are read, and the frequency with which they are exchanged, by a section of the 25,000 readers who are

now using the lending libraries tell unduly in the class proportion of the books issued. Taking scientific and technical books alone, the issue of 44,451 is worthy of special mention. Some little satisfaction may here be expressed that among free libraries Liverpool first sought to cultivate a taste for music by placing on the shelves of these branch libraries high-class works in this delightful art. Last year 15,815 volumes found their way into the homes of the people. It may also be further mentioned that it was in these libraries that the blind as readers first received recognition and have their tedious hours lightened by a literature adapted to their needs. These readers have to-day a very generous friend in Miss M. L. Hornby, who has added to the collection of books in the library in Braille type to an extent which calls for the grateful acknowledgment of the city at large. Five years ago the number of books lent to the blind numbered only 211 volumes, while last year it had increased to 1,176. Much of this increase is due to the bright, cheerful character of books presented by Miss Hornby. This special library now numbers 667 volumes. A special catalogue has been printed, and is obtainable gratis. Any friends of the blind therefore would be obliging the Library Committee by making this fact known.

During the past year the extension of the free lectures to a number of the outer districts of the city was continued. With those given in the Central Lecture Hall, William Brown Street, the total number of lectures delivered numbered 51, and the total attendances 47,553.



GENERAL READING ROOM, KENSINGTON BRANCH LIBRARY.



GENERAL READING ROOM, EVERTON BRANCH LIBRARY.



TABLE I.

SUMMARY OF STATISTICS OF LIBRARY DEPARTMENT.

	Volumes issued.	Weekly, &c. Magazines issued.	Newspaper Visitors.	Lecture Attendances.
Reference Library.				
PICTON READING ROOM :				
Volumes issued	229,993	..	..	..
Magazines and Reviews .....	..	183,306	..	..
BROWN LIBRARY :				
Volumes issued	137,930	..	..	..
Monthly and Weekly Magazines .....	..	247,019	..	..
Illustrated Papers, issued in volumes				
("The Graphic," "Illustrated				
London News," "Punch," &c.)	43,983	..	..	..
Directories	103,024	..	..	..
Specifications of Patents for Inventions	22,541	..	..	..
Visitors to the Newspapers .....	..	..	334,212	..
Lending Libraries (Six).				
Volumes lent for Home Reading	891,236	..	..	..
KENSINGTON LIBRARY READING ROOMS :				
Volumes issued	79,714	..	..	..
Magazines and Reviews .....	..	120,716	..	..
Visitors to the Newspapers .....	..	..	89,971	..
EVERTON LIBRARY READING ROOMS :				
Volumes issued	61,438	..	..	..
Magazines and Reviews .....	..	128,054	..	..
Visitors to the Newspapers .....	..	..	85,580	..
WALTON LIBRARY READING ROOM :				
Volumes issued	6,358	..	..	..
Magazines and Reviews .....	..	42,935	..	..
Visitors to the Newspapers .....	..	..	34,191	..
Evening Reading Rooms.				
Newspapers, Magazines, and Reviews .....	..	..	90,605	..
Lectures.				
Attendance .....	..	..	..	47,553
Totals	1,576,217	722,030	634,559	47,553

TABLE II.

Comparative Statement of issues in the Picton Reading Room:—

Classification.	1893.	1897.
Theology, Morals, and Metaphysics	22,134	22,913
Natural Philosophy, Mathematics, &c.	22,010	21,336
Natural History, &c.	8,157	8,432
Science and the Arts, Sports and Pastimes	35,482	36,401
History and Biography, &c.	22,115	23,174
Topography and Antiquities	8,279	8,108
Voyages and Travels, Gazetteers, Atlases	16,650	18,726
Collected Works, Essays, &c.	33,790	39,545
Jurisprudence, Law, and Politics	5,878	6,137
Commerce, Political Economy, Social Science, &c.	7,205	7,893
Education and Language	18,809	17,168
Poetry and Dramatic Literature	10,897	10,522
Latin and Greek Classics	4,289	3,804
Encyclopædias, Dictionaries, &c.	14,268	12,835
Totals	229,993	236,994

Shewing a decrease from 1897 of 7,001 vols.

TABLE III.

TABLE.—Shewing the number and classification of works contained in the Reference Library:—

Classification.	Volumes.
Theology, Morals, and Metaphysics	7,984
Natural Philosophy, Mathematics, &c.	3,083
Natural History	6,263
Science and the Arts, Sports and Pastimes	14,905
History and Biography, &c.	14,035
Topography and Antiquities	6,312
Voyages and Travels, Gazetteers, Atlases	5,831
Miscellaneous Literature (principally collected Works, Essays, Reviews, Societies' Proceedings, &c., in volumes)	27,946
Jurisprudence, Law, and Politics	9,255
Commerce, Political Economy, Social Science, &c.	2,417
Education and Language	1,979
Poetry and Dramatic Literature	4,451
Prose Fiction	5,681
Latin and Greek Classics and Translations	1,042
Encyclopædias and Works of General Reference	4,126
Total	115,310



BOYS' ROOM, KENSINGTON BRANCH LIBRARY



BOYS' ROOM, EVERTON BRANCH LIBRARY.



TABLE IV.
LENDING LIBRARIES.
General Statistics.

Volumes issued, &c.	Central.	•Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total.
Volumes issued in Lending Department	220,491	174,079	158,071	180,871	100,175	57,549	891,236
Volumes issued in General Reading Room	—	31,981	—	43,929	6,358	—	82,268
Volumes issued in Ladies' Room	—	981	—	7,764	—	—	8,745
Volumes issued in Boys' Room	—	28,476	—	23,021	—	—	56,497
Magazines issued in General Reading Room	—	85,657	—	96,745	42,935	—	225,337
Magazines issued in Ladies' Room	—	9,592	—	14,513	—	—	24,105
Magazines issued in Boys' Room	—	32,805	—	9,458	—	—	42,263
Newspaper Readers in General Reading Room	—	79,021	—	86,074	34,191	—	199,286
Newspaper Readers in Ladies' Room	—	6,559	—	3,897	—	—	10,456
New Tickets issued	3,372	2,180	1,845	2,662	1,234	700	11,993
Readers on the Books ..	7,010	5,968	3,970	4,689	2,424	1,450	25,511
Books lost or injured and paid for	69	34	41	24	7	6	181
Books lost from Lending Department.....	† 8	† 2	—	—	—	—	10
Books stolen from Reading Room	—	—	—	1	—	—	1
Volumes worn out and withdrawn	—	—	842	46	—	—	888
Volumes worn out and replaced	96	157	671	260	—	—	1,184
Volumes added	1,146	644	692	894	462	385	4,223
Total volumes in Libraries	12,159	23,087	25,465	14,928	6,003	3,723	85,365

* The Everton Branch closed for Painting and Tiling the General Reading Room from June 25th to July 11th; the Ladies' Room from June 18th to July 11th; and the Boys' Room from June 13th to August 9th.

† Stocktaking in September, it covers a period of three years for Central and two years for Everton Branch.

LIBRARIES.

TABLE V.

Shewing the classification of volumes issued.

Classification.	Lending Department.					Reading Rooms.			Total Issues.		
	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total issued for Home Reading	Everton Branch.	Kensington Branch.		Walton Branch.	Total Issued in Reading Rooms.
Theology, Morals, and Metaphysics.	2,548	1,695	1,766	1,231	815	400	8,455	1,203	748	97	2,048
Natural Philosophy and Mathematics	3,059	1,429	1,742	1,852	923	605	9,610	1,198	1,194	187	2,579
Natural History	2,748	833	707	916	464	458	6,126	390	592	104	1,086
Science and the Arts.	12,377	5,961	5,404	7,533	4,661	2,149	38,085	2,152	3,307	907	6,366
History and Biography.	6,382	3,674	4,388	3,447	1,915	1,505	21,311	1,822	1,815	254	3,891
Topography and Antiquities	1,043	479	680	819	486	328	3,835	267	447	72	786
Voyages and Travels.	5,089	2,668	2,507	2,893	1,595	1,147	15,899	1,226	990	452	2,668
Miscellaneous Literature	2,977	5,597	5,908	6,312	950	539	22,283	11,757	6,910	142	18,809
Jurisprudence, Law, and Politics	288	61	134	112	47	25	667	82	146	12	240
Commerce and Political Economy	1,901	1,103	1,202	905	467	263	5,841	425	637	80	1,142
Education and Language.	1,302	518	613	608	377	179	3,597	894	577	89	1,560
Poetry and Dramatic Literature	1,619	562	717	783	386	331	4,398	556	685	100	1,341
Prose Fiction	177,722	112,087	106,653	123,679	87,089	49,620	656,850	15,503	21,713	3,862	41,078
Latin and Greek Classics.	260	120	223	238	—	—	841	125	233	—	358
Books for the Blind	1,176	—	—	—	—	—	1,176	—	—	—	1,176
Books for the Young.	—	37,292	25,427	29,543	—	—	92,262	23,838	39,720	—	63,558
TOTALS.	220,491	174,079	158,071	180,871	100,175	57,549	891,236	61,438	79,714	6,358	147,510
											1,038,746

* Of this total 15,815 were volumes of Music.

TABLE VI.—Shewing classification of Borrowers :—

Classification.	Central.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total
Architects, Builders, and Surveyors ...	31	12	16	29	4	8	100
Artists, Photographers, & Draughtsmen	73	10	35	45	6	5	174
Bakers, Butchers, and Grocers	79	154	86	126	34	32	511
Boilermakers, Platers, and Riveters ...	4	16	12	20	7	—	59
Bookbinders, Printers, and Stationers	142	94	54	72	5	8	375
Bookkeepers, Clerks, and Agents	2,601	731	649	676	347	165	5,169
Boot and Shoe Makers	11	15	15	9	5	2	57
Box Makers.....	11	2	5	7	—	—	25
Brass, Iron, and Steel Founders.....	18	20	21	11	9	—	79
Bricklayers, Slaterers, and Masons ...	16	22	10	7	8	—	63
Cabinetmakers, French Polishers, &c.	36	28	21	21	2	3	111
Carpenters and Joiners.....	45	71	72	78	30	6	302
Chemists and Druggists.....	37	23	24	16	7	6	113
Clergymen, Doctors, and Lawyers.....	68	36	38	41	25	9	217
Coach Painters and Builders	7	9	12	15	2	—	45
Cooks, Waiters, and Waitresses.....	60	19	13	46	2	21	161
Customs' Officers, Police, Postmen, &c	72	129	134	102	28	42	507
Domestic Servants	—	—	—	—	—	31	31
Dressmakers and Milliners	125	36	9	108	10	23	311
Engineers, Fitters, and Machinists ...	117	116	99	108	46	16	502
Farmers and Gardeners.....	12	3	4	7	6	20	52
Firemen	4	3	5	6	3	—	21
Hairdressers.....	15	13	21	12	6	2	69
Ironmongers.....	8	6	6	7	2	3	32
Labourers.....	37	129	73	33	13	2	287
Licensed Victuallers, Brewers, & Barmen	45	21	30	23	8	3	130
Mariners	11	26	25	16	14	3	95
Merchants and Brokers.....	41	10	32	32	9	13	137
Messengers, Office Boys, & Apprentices	557	200	189	134	87	29	1,196
Music Teachers	16	18	9	26	3	4	76
Musicians	20	9	4	37	1	1	72
Nurses	34	8	7	15	17	18	99
Painters, Plumbers, and Gasfitters.....	34	74	58	52	19	6	243
Pattern Makers, Moulders, & Turners	6	23	8	16	3	—	56
Pawnbrokers	7	14	12	8	7	—	48
Schoolmasters and Teachers.....	224	227	65	253	81	84	934
Students and Scholars	195	1,250	146	277	127	95	2,090
Shipwrights, Riggers, and Sailmakers	6	18	21	9	3	1	58
Smiths	3	35	22	22	5	1	88
Tailors and Drapers	110	51	40	57	6	7	271
Telegraphists and Typists	106	35	71	56	9	15	292
Tobacconists	36	7	7	12	3	1	66
Warehousemen and Storekeepers	130	86	62	75	18	2	373
Watchmakers, Jewellers, & Opticians	49	14	20	10	7	1	101
Miscellaneous	436	152	34	84	150	49	905
No occupation (principally females) ...	1,315	1,993	1,674	1,873	1,240	713	8,808
Totals.....	7,010	5,968	3,970	4,689	2,424	1,450	25,511

TABLE VII.—EVENING READING ROOMS.

	1898.		1897.	
	Attendance.	Average per Night.	Attendance.	Average per Night.
Chatsworth Street Board Schools ...	27,091	88	26,204	86
Stanley Road Board Schools	46,167	149	42,884	144
Wellington Road School	17,348	56	16,703	54
	90,606	293	85,791	284

FREE LECTURES.

DELIVERED IN THE PICTON LECTURE HALL, JANUARY TO MARCH.

- ARCHER, ROBERT S., F.S.A. (SCOT.) "To Nuremberg and back, via the Rhine;" with Lantern illustrations.
- BURSTALL, FRED. H., F.R.C.O., Cathedral Organist, Liverpool. "Gounod;" with Musical illustrations.
- CARRUTHERS, GEORGE A. "Through the sunny Canary Islands;" with Lantern illustrations.
- CORTIE, REV. A. L., S.J., F.R.A.S., of Stonyhurst College Observatory. "The Principles of Spectrum Analysis;" with Lantern illustrations and experiments.
- DYALL, CHARLES, Curator, Walker Art Gallery. "Decorative Art in daily life, as conducive to content and happiness;" with illustrations.
- ELLIS, JOHN W., M.B., F.E.S. "Personal and photographic impressions of Brittany;" with Lantern illustrations.
- FORBES, HENRY O., LL.D., F.R.G.S., Director of Museums, Liverpool. "Relics of a vanished land in the Antarctic Seas;" with Lantern illustrations.
- FORWOOD, ALDERMAN SIR WILLIAM B., J.P., Chairman, Library, Museum, and Arts Committee. "Egypt, Past and Present;" with Lantern illustrations.
- GLAZEBROOK, FRANK. "Switzerland: its people and mountains;" with Lantern illustrations.
- GREEN, ROBERT F. "Bathing and Washing: a glance at some strange customs and observances in different parts of the world;" with Lantern illustrations.
- GRENSTED, REV. F. F., M.A., Diocesan Inspector of Religious Education. "The shapes of water and other liquids;" with Lantern illustrations.
- HADDOCK, COUNCILLOR L. B. "A trip to the Argentine Republic;" with Lantern illustrations.
- HALDANE, J. W. C., C.E. "Ocean Bed Scenery;" with Lantern illustrations.
- HARRIS, REV. CHARLES, M.A., F.R.G.S. "The Dwellers in the Euphrates Valley; or, New Light on an Old History;" with Lantern illustrations.
- HEWITT, W., B.SC., Director of Technical Instruction, Liverpool. "Optical Illusions;" with Lantern illustrations.
- HOWARD, JAMES L., D.SC., Lecturer on Physics and Physical Geography, University College, Liverpool. "Volcanoes;" with Lantern illustrations.
- HOWELL, FREDERICK W. W., F.R.G.S. "Five hundred miles in Wilder Norway;" with Lantern illustrations.

- KOHN, CHARLES A., PH.D., B.SC., Lecturer on Organic Chemistry, University College, Liverpool. "The Gases of the Atmosphere;" with Lantern illustrations and experiments.
- MARTYN, REV. JAMES H. "Charles Kingsley, poet and novelist;" with Lantern illustrations.
- NARRAMORE, WILLIAM, F.L.S., M.SAN.INST. "Milk: its food-value for young and old, and the ancient and modern ideas regarding it;" with Lantern illustrations.
- NEVINS, J. ERNEST, M.B. "Life in an Indian village;" with Lantern illustrations.
- PROCTOR, MRS. RICHARD A. "Other Suns than ours;" with Lantern illustrations.

NOVEMBER AND DECEMBER.

- BRISCOE, J. POTTER, F.R.H.S. "The British Madeiras: a visit to the Channel Islands;" with Lantern illustrations.
- CLIBBORN, FREDERIC. "The most picturesque town in France: Le Puy (Haute Loire);" with Lantern illustrations.
- CORTIE, REV. A.L., S.J., F.R.A.S. "Shooting Stars;" with Lantern illustrations.
- ELLIS, JOHN W., M.B., F.E.S. "Reminiscences of old and new Belgium;" with Lantern illustrations.
- GIBSON, R. J. HARVEY, M.A., F.L.S., Professor of Botany, University College, Liverpool. "The Lotus and the Trefoil: a chapter in the history of Architecture;" with Lantern illustrations.
- HARVEY, WILLIAM. "A tour in Southern Germany;" with Lantern illustrations.
- HELE-SHAW, H. S., LL.D., M.INST.C.E., Professor of Engineering, University College, Liverpool. "The Modern Motor Vehicle and its future;" with Lantern illustrations.
- HEPWORTH, T. C., F.C.S. "Photography up to date;" with Lantern illustrations.
- HERDMAN, W. A., D.SC., F.R.S., Professor of Natural History, University College, Liverpool. "The Herring Fisheries of Loch Fyne and the Irish Sea;" with Lantern illustrations.
- LEE, JOHN, B.A. "Modern short stories and short story writers;" with illustrative recitals.
- MARTYN, REV. JAMES H. "The Rivers and Broads of Norfolk and Suffolk;" with Lantern illustrations.

- PLUMMER, W. E., M.A., F.R.A.S., Director of the Liverpool Observatory, Bidston. "Remarkable Comets;" with Lantern illustrations.
- THOMPSON, GEORGE E. "Canyons of Southern France;" with Lantern illustrations.
- WEBSTER, MISS VEVEY. "In Sunland: the story of a tour in Grand Canary;" with Lantern illustrations.

DELIVERED IN OUTER DISTRICTS, JANUARY TO MARCH.

COUNTY HALL, WALTON—

- "Ice and Ice Sculpture," by REV. SAMUEL GASKING, B.A., F.L.S., F.G.S.; with Lantern illustrations.
- "A Little Tour in Ireland," by FREDERIC CLIBBORN; with Lantern illustrations.
- "Through Snowdonia with a Camera," by DONALD KENDALL; with Lantern illustrations.

MONTPELLIER HALL, GRANBY STREET, TOXTETH—

- "The Growth of a Mountain," by REV. F. F. GRENTED, M.A., Diocesan Inspector of Religious Education; with Lantern illustrations.
- "Relics of a Vanished Land in the Antarctic Seas," by HENRY O. FORBES, LL.D., F.R.G.S., Director of Museums, Liverpool; with Lantern illustrations.
- "A Wild Ride through Iceland," by FREDERICK W.W. HOWELL, F.R.G.S.; with Lantern illustrations.

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- "The Hygiene of Bone and Muscle in relation to Gymnastics and Athletics," by WILLIAM NARRAMORE, F.L.S., M.SAN.INST.; with Lantern illustrations.
- "Personal and Photographic Impressions of Brittany," by JOHN W. ELLIS, M.B., F.E.S.; with Lantern illustrations.
- "Jacobites in Lancashire," by COUNCILLOR F. J. LESLIE, F.R.G.S., Chairman, Lecture Sub-Committee; with Lantern illustrations.

TOWN HALL, WAVEERTREE—

- "Modern Pictorial Art and its Technical Characteristics," by CHARLES DYALL, Curator, Walker Art Gallery, Liverpool; with Lantern illustrations.
- "Some more Old Lancashire Houses," by COUNCILLOR F. J. LESLIE, F.R.G.S., Chairman, Lecture Sub-Committee; with Lantern illustrations.
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"From Cornwall to Canterbury: a modern pilgrimage," by LLEWELLYN MORGAN, M.D.; with Lantern illustrations.

"On the Coast of South Devon," by JOHN C. LEE; with Lantern illustrations.

"Through Wales with Camera and Song," by ROBERT S. ARCHER, F.S.A. (SCOT.); with Lantern and vocal illustrations.

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THE RIGHT HON. THE EARL OF CRAWFORD AND BALCARRES, K.T., LL.D.:—

Bibliotheca Lindesiana: Catalogue of English Broad-sides, 1505-1897, privately printed, 1898; Collations and Notes, No. 4: Autotype Facsimiles of Three Mappemondes, with an Introduction, including a short notice on Desceliers' Later Mappemonde of 1553, by C. H. Coote, privately printed, 1898, 2 vols.; and 2 other works.

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Hesychii Lexicon cum notis integris, vel editis antehac, nunc auctis et emendatis, H. Junii, H. Stephani, &c., vel ineditis H. Valesii, D. Heinsii, &c., ex autographis recensuit nunc primum edidit, suasque animadversiones perpetuas adjecit J. Alberti. 2 vols. folio. Lugduni Batavorum, 1746-66.

PHILIP H. HOLT, ESQ.:—

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MISS HORNBY:—

Santa Lucia: a monthly magazine in Braille type (12 parts).

MISS M. L. HORNBY:—

Books for the Blind, Braille type:—Across Greenland, by F. Nansen (6 vols.); Baby Bianca, by Mrs. Valentine (3 vols.); Bootles' Baby, by J. S. Winter; Cherry and Violet, by A. Manning (2 vols.); Christmas Carol, by C. Dickens (2 vols.); Coming Race, by Lord Lytton (3 vols.); Cranford, by E. C. Gaskell (3 vols.); Crown of Wild Olive, by J. Ruskin (2 vols.); Deserted Village, by Oliver Goldsmith; Dream Woman, by Wilkie Collins; Eothen, by A. W. Kinglake (4 vols.); Heart of the World, by R. Haggard (5 vols.); Heroes, Hero Worship, and the Heroic in History, by T. Carlyle (6 vols.); Mademoiselle Ixe, by L. Falconer; Man in Black, by S. Weyman (2 vols.); The Old Missionary, by Sir W. W. Hunter; Records of Tennyson, Ruskin, and Browning, by A. Ritchie (3 vols.); Ships that Pass in the Night, by B. Harraden (2 vols.); Story of Colbert and Quintin Matsys.

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SMITHSONIAN INSTITUTION, WASHINGTON, U.S.A. :—

History of the First Half-Century of the Smithsonian Institute, 1846-1896, ed. by G. B. Goode; Annual Report of the Smithsonian Institution, 1894-5; Smithsonian Miscellaneous Collections; and 7 other works.

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United States Eleventh Census (4 vols.); United States Department of Agriculture: Bulletins, Circulars, Insect Life (148 parts); Annual Reports of the Commissioner of Education, 1895-6 and 1896-7; and 27 other works.

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The following Periodicals, Newspapers, &c., have been presented regularly by the respective Publishers :—

Accountant	Isle-of-Man Examiner
African Review	Journal of the Clerk of Works' Association
Arms and Explosives	Journal of the Royal Statistical Society
Awake	Journal of State Medicine
Bible Advocate	Keefe's Civil Service Monthly
British Temperance Advocate	Labour Chronicle
Builders' Reporter	Labour Gazette
Cabinet Maker and Art Furnisher	Leamington Advertiser
Canadian Gazette	Light
Canadian Patent Office Record	Literary News
Cape Argus	Liverpool Catholic Times
Children's World	Liverpool College Old Boys' Magazine
Child's Guardian	Liverpool College Upper School Magazine
Church Missionary Gleaner	Liverpool Courier (daily and weekly)
Church Missionary Intelligencer	Liverpool Echo
Church Monthly	Liverpool Express
Church Weekly	Liverpool Institute Schools Magazine
Civil Service Aspirant	Liverpool Journal of Commerce
Civil Service Competitor	Liverpool Mercury (daily and weekly)
Civil Service Examiner	Liverpool Porcupine
Civil Service Hints	Liverpool Post (daily and weekly)
Concord	Liverpool Review
Cowkeeper and Dairyman's Journal	Liverpool Shipping Telegraph
Crescent	Liverpool Y.M.C.A. Journal
Deliverer	Local Government Journal
Educational Times	London Tailor
Electrical Engineer	Machinery
Electrician	Machinery Market
English Churchman	Madame
Englishwoman's Review	Manchester Faces and Places
Esmeduna	Mariner
Estates Gazette	Midland News
Farm, Field, and Fireside	Milling
Financial Reformer	Mission Field
Fire and Water	Mona's Herald
Foresters' Miscellany	Musical Herald
Free Life	Myrtle Wreath
Fruit-grower, Fruiterer, Florist, &c.	Nature Notes
Gaelic Journal	New Church Magazine
Grocers' Review	New Ireland
Gwalia	New Ireland Review
Herald of Peace	Nonconformist Musical Monthly
Herald of the Golden Age	Northampton Mercury
Hereford Times	Oddfellows' Magazine
Homeopathic World	Official Journal of the Patent Office
Incorporated Accountants' Journal	Orchestral Association Gazette
Incorporated Society of Musicians, Journal of	Oxford Chronicle
In His Name	Paper Maker
Inventors' Review	Paper Makers' Circular
Insurance Agent & Insurance Review	Personal Rights Journal
Irish Times	Photogram
Iron and Coal Trades Review	Poor-Law Officers' Journal
Iron and Steel Trades Journal	
Islamic World	

Positivist Review	Stanley Gibbons Monthly Journal
Post	State Correspondent
Present Truth	Stationer, Printer, and Fancy Trades
Preston Herald	Register
Printers' Register	Stationery World
Public Health Engineer	Stonyhurst Magazine
Railway Review	Student's Journal
Ramsey Courier	Temperance Chronicle
Ramsey Weekly News	Tool and Machinery Register
Reports of Patents, Design, and Trade	Trade Journals' Review
Mark Cases	Trade Marks Journal
Sanitary Inspector	Travel
Sanitary Record	Two Worlds
Script Phonographic Journal	University Correspondent
Sheffield Weekly Independent	Vaccination Inquirer
Shipping World	Vegetarian
Shoe and Leather Record	Vegetarian Messenger
Society of Chemical Industry, Journal	Western Daily Press
of	Worcestershire Herald
Sphinx	Zoophilist

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THE MUSEUMS.

IN the absence of the Director of Museums, the Assistant Curator of the Derby Museum furnishes the Forty-Sixth Annual Report upon the CONDUCT and PROGRESS of the Museums.

I.—GENERAL.

THE FREE PUBLIC MUSEUMS comprise (A) the DERBY MUSEUM, of which the nucleus was the collections bequeathed in 1851 to the City, by the Thirteenth Earl of Derby. It contains the *British Collections*, and the general *Zoological, Geological, Mineralogical, and Botanical* Departments, besides which there is an *Aquarium*, containing both Fresh and Salt Water Animals; (B) the MAYER MUSEUM, the larger part of which was collected and presented to the Corporation in 1867, by Joseph Mayer, Esq., F.S.A. These collections are specially rich in (a) *Egyptian, Babylonian, and Assyrian Antiquities*; (b) *Mediæval European Ivories, Bronzes and Illuminated Manuscripts*; (c) the unrivalled *Brian-Faussett Anglo-Saxon Collection*; (d) the *Mather Miniatures*; and (e) the very important *Pottery Collections*, conspicuously rich in Wedgwood and Old Liverpool Wares. Associated with this Museum, as belonging more nearly to the subjects illustrated by it, though not forming to any large extent part of the Mayer Bequest, are (f) the *Ethnographical Collections*, chiefly of barbaric races.

The building, in which these collections are housed, was erected at the cost of the late Sir William Brown, in October, 1860.

The Exhibition Galleries are open free to the public, as under :—

During January, November, and December	...	from 10 to 4
„ February	... ..	„ 10 to 4-30
„ March and October...	... ..	„ 10 to 5
„ April to September...	... ..	„ 10 to 6
Also on Monday <i>Evenings</i> during January to	}	„ 7 to 10
March, and October to December		

The Museums are closed on Sundays and Fridays (except the Fridays of Whit-, Easter- and Christmas-Weeks) throughout the year, as well as on Christmas Day, and days of Public Fast and Thanksgiving.

On the first day of July last the Foundation Stone of the Technical School and Museum Extension Buildings was laid by Alderman Sir William Bower Forwood. The proceedings were presided over by the Lord Mayor of the City, Alderman John Houlding, and there were present Members of the City Council, the Principal and Professors of University College, and many others interested in scientific and technical education. The stone, a block of Aberdeen granite, has a polished face, bearing a suitable inscription as a record of the important proceedings of the day, and will appear as a tablet on one of the inner walls of the Entrance Hall of the Technical School. During the past year fair progress has been made in the work of building, and the walls are now up to the level of the second storey.

The Museums were represented by the Director at the British Association, which met under the Presidency of Sir William Crookes, at Bristol, and also at the Meeting of the Zoological Congress, held in Cambridge in August.

The second number of *The Bulletin of the Liverpool Museums* was published in February, and contains (a) a description, with a hand-coloured plate, of an interesting bird from Madagascar, found in the Derby Collection; (b) notes on two species of Pigeon in the Derby Collection; (c) catalogue of Cuckoos and Plantain-eaters in the Derby Museum; and (d) a description of a collection of cast-metal work from Benin, copiously illustrated by photographic reproductions.

The third and fourth numbers were issued in October, in the form of a double number. This contains (a) a brief account of the laying of the Foundation Stone, with description and plate of the New Museum Extension Buildings; (b) descriptions with figures, of a new Marine Spider from South Africa and of a Crab-gall on *Millepora*; (c) notes on several species of birds in the Derby Collection, with hand-coloured plates of two; (d) notes on some Marine Invertebrates from Hilbre Island; (e) catalogue of the Picarian Birds in the Derby Museum and (f) a paper on a Fragment of the Parcival of Wolfram von Eschenbach in the Mayer Museum, illustrated by four plates.

The first four parts, which constitute Volume I. of the Bulletin, have now been published as a royal 8vo. volume of 128 pages and 16 plates (five hand coloured), bound in a neat cloth binding. Separate boards or binding may also be obtained at the publishers.

The Director of Museums, accompanied by the Taxidermist, Mr. Cutmore, in conjunction with Mr. W. R. Ogilvie-Grant, of the British Museum, left towards the end of October last on a Zoological Expedition to Sokotra, an island about 400 miles beyond Aden. Information has since been received that the expedition had already collected some specimens on the way out and was safely landed in Sokotra, with the members all well. It is expected to return early in the year, when a special report will be issued on the results.

II.—VISITORS.

During the year there has been a considerable increase in the number of visitors to the Museums over that of the previous year, as shown by the following table :—

				1897.	1898.
				(261 Days)	(264 Days)
Total Visitors in the Year	..	..	..	337,838	.. 354,114
Weekly Average	..	..	..	6,496	.. 6,809
Daily Average	..	..	..	1,294	.. 1,341

These figures compare most favourably with the attendances at the British Museum (Natural History). In 1896 the total attendance on week days at the National Museum was 417,033, or an average daily attendance of about 1,336 persons; in 1897 the total attendance on week days was 372,867, or an average daily attendance of nearly 1,203. The average daily attendance at the Liverpool Museum for 1898 is 1,341 persons, or 5 in excess of the daily attendance at the British Museum (Natural History) during 1896 and 138 in excess of the daily attendance during 1897. The 1898 figures for the British Museum are not yet to hand. The attendance of schools, taking advantage of the clause in the Education Code, whereby time devoted to instruction imparted in Museums reckons as school attendance, has been well maintained—considerably over 1,000 children, under the charge of teachers, having visited the Museums in order to receive lessons from the specimens on exhibition. The value of this system is seen in the great interest aroused in the children, as shown by their increased attendance, independently and with their parents, during the school holidays. This has become quite a marked feature, and plays no inconsiderable part in the advance of the total attendances year by year.

Persons desirous of employing the Museums for the purpose of research, reference or sketching, can obtain, by application to the Director, and on giving satisfactory references, tickets enabling them to enter on Fridays, when there are special facilities afforded them for study ; a room is devoted to their accommodation, where particular objects of study may, with the approval of the Director, be brought for their convenience from the cases. Tickets were issued, as usual, during the year (chiefly) to Artists and Students of Natural History, Osteology and Dental Anatomy, who have made extensive use of the collections on the days the Museums were otherwise closed to the public.

The Museums were open on twenty-five Monday evenings during the periods of January to March and October to December, when the total attendances were 8,768, giving an average of 350 each evening.

The following, among others, have visited the Museums during the year for the purpose of inspecting the Collection or other special objects :—Dr. A. B. Macallum, Toronto ; Prof. and Mrs. Baldwin Brown, Edinburgh ; H. Duckworth, Jesus College, Cambridge ; Dr. Priebisch, London ; Major-General Robley ; Prof. Bower ; Prof. Hall Griffen, London ; Dr. Murie, Edinburgh ; Dr. and Mrs. Jessop ; Fleet-Master Lowther, R.N. ; W. E. Hoyle, M.A., Manchester ; Purdon Clarke ; Prof. Paterson, M.D. ; Rev. James and Mrs. Hadfield, Loyalty Islands ; W. Crosfield, J.P., and Miss Crosfield ; C. Madeley, Curator, Warrington Museum ; R. Newstead, Curator, Chester Museum.

III.—LECTURES.

Twenty Lectures were delivered by members of the Staff on Monday evenings in the Theatre of the Museum. They were illustrated by specimens from the Museums and by lantern slides. The total attendance at the Lectures was 2,440.

The following is a list of the subjects :—

A course of six Lectures on “The Animals of Australia—a chapter in Geographical Distribution”—was given by the Assistant Curator of the Derby Museum, Mr. Joseph A. Clubb, M. Sc. :—

Jan. 10th.—“Zoo-Geographical Distribution.”

Jan. 17th.—“The Zoological Regions.”

Jan. 24th.—“The Egg-laying Mammals of Australia.”

Jan. 31st.—“The Pouched Mammals of Australia,” I

Feb. 7th.—“The Pouched Mammals of Australia,” II.

Feb. 14th.—“Peculiar Birds and Reptiles.”

A course of three Lectures on “The Carboniferous Period, or the time when our Coal was made,” was given by the Assistant in the Derby Museum, Mr. W. S. Laverock, M.A., B. Sc., as follows :—

Feb. 21st.—“The Rocks of the Carboniferous Period.”

Feb. 28th.—“The Animals of the Carboniferous Period.”

March 7th.—“The Plants of the Carboniferous Period.”

A course of three Lectures on “The Mortuary Customs of the American Indians” was given by the Assistant Curator of the Mayer Museum, Mr. P. Entwistle, as follows :—

March 14th.—“Pit Burials.”

March 21st.—“Canoe and other Burials.”

March 28th.—“Tree and Scaffold Burials.”

A course of four Lectures on “The Fish-like Mammals” was given by the Assistant Curator of the Derby Museum, Mr. Joseph A. Clubb, M. Sc., as follows :—

Oct. 10th.—“Seals and their Capture.” I.

Oct. 17th.—“Seals and their Capture.” II.

Oct. 24th.—“Whales and their Capture.” I.

Oct. 31st.—“Whales and their Capture.” II.

A course of four Lectures on “Common Wild Flowers” was given by the Assistant in the Derby Museum, Mr. W. S. Laverock, M.A., B.Sc., as follows :—

Nov. 7th.—“The Pea and the Clover.” I.

Nov. 14th.—“The Pea and the Clover.” II.

Nov. 21st.—“The Scottish Blue-bell.”

Nov. 28th.—“The English Blue-bell.”

A. DERBY MUSEUM.

THE ENTRANCE HALL AND GALLERIES.

(BRITISH COLLECTIONS.)

The work of filling up the blanks in the series has been continued, but much still remains to be done, both in this respect and in the effective labelling of the specimens. The value of these collections is evidenced

almost daily—the type series of Butterflies and Moths of the neighbourhood, especially, being largely made use of by local amateur collectors in identifying their captures. The work of building up the large Sigillarian trunk taken from the coal-bearing measures at Wigan, referred to in the last Report, has been completed, but the finishing off of the exhibit has been delayed, so that an additional length of the main stem, showing more of the characteristic Sigillarian markings, may be added. This portion, through the active interest of Mr. Knowles and Mr. Haworth, it is expected, will come to hand shortly.

ZOOLOGICAL DEPARTMENT.

(a) GENERAL.

During the past year there has been no change in the number and duties of the staff. The work of cataloguing the Birds has been continued, and to the Catalogue of the Parrots (*Psittaci*), published in 1897, there have been added during 1898 the Cuckoos and Plantain-eaters (*Cuculi*) and the Woodpeckers (*Pici*). Other groups are in course of preparation. The acquisitions made during the year have been large, and a considerable amount of the time of the scientific staff is taken up in the identification, cataloguing and registering in stock of these specimens.

It is important, in view of the great increase of exhibition space at an early date, that as many specimens as possible should be prepared for exhibiting, so that when the time comes they will be ready for removal to the various exhibition cases. The store material will, without doubt, yield a large number of specimens for this purpose, but the working up of this material consumes so much time, entailing as it does the scientific examination of every specimen either to identify it or to verify the name already attached, and also, when satisfactorily determined, the preparation and mounting in suitable exhibition jars, that it becomes almost necessary, in order to make any material progress, that a staff should be able to devote the whole time to this work alone. Some preparations have been made from this source, and also from the acquisitions as they are received, but the progress is slow when taken along with other duties.

The series of photographic enlargements illustrating the various races of mankind—the Caucasian, the Mongolian and the Melanesian—have been further extended. Anthropologists, who have seen them, have expressed their high appreciation of their value, and requests have been received from several Museums for copies. A series is at present being prepared for the British Museum, and over fifty enlargements have been already sent to that Institution *per* Mr. Richard Lydekker, F.R.S.

(b) ARRANGEMENT.

The same general arrangements of the collections have been maintained throughout the year, and in view of the Extension, when such changes and re-arrangements will be involved, little can be done, beyond keeping the collections, as at present exhibited, in proper order.

(c) CONSERVATION.

All the collections on exhibition have been periodically examined, dusted and kept free from moth or other pest. The store cabinets and tanks, containing specimens preserved in fluid, have also been systematically gone over for the purpose of renewing the spirit or other preservative. The store cabinets of dried specimens also require constant attention, insects especially being liable to deterioration.

The work of reducing the duplicate specimens of mounted birds and forming cabinet skins of them for the study collection has been continued.

The Indian Elephant, presented to the Museum in May last by Messrs. Barnum and Bailey, has been preserved. The skin was cured and is now coopered in preservative fluid ready for stuffing; the skeleton was cleaned and buried in sand to macerate and the bones are now almost ready for mounting; various parts of the viscera have been preserved for further anatomical investigation.

(d) LOANS.

Several specimens of Birds (*Myzomela lifuensis* and *M. rubrocucullata*) were lent to the Hon. Walter Rothschild, for study at his Museum at Tring, Herts.

Forty specimens of Birds (*Turdidæ*) were lent to Dr. Bowdler Sharpe, British Museum.

(e) PRESENTS.

The donations to the Museum during the year have been numerous, and again the continued kindness of Mr. A. Ridyard, of the S.S. "Niger," has to be recorded. Among the numerous living West African Fishes, all of great interest, which Mr. Ridyard has presented this year, there is one—the Calabar Polypterus (*Calamoichthys calabaricus*)—which is especially interesting to Ichthyologists.

The gift of the Indian Elephant and the Giant Kangaroo, by Mr. J. A. Bailey, of Messrs. Barnum and Bailey, is also worthy of notice.

(f) EXCHANGES.

A Living Mud-fish (*Protopterus annectens*) in the dried block, was sent to Professor Bashford Dean, Columbia University, New York, who sent in exchange eggs and larvæ of *Lepidosteus* and *Amia*, two North American Ganoid Fishes.

A dozen Living Walking-fish (*Periophthalmus koelreuteri*) were sent to the Zoological Gardens, London.

Eight Living Walking-fish (*Periophthalmus koelreuteri*) were given to Captain Vipan, Wansford, in exchange for living specimens of *Ophiocephalus punctatus*, the Indian Serpent-head Fish, and *Iheros facetus*, a Central American Fresh-water Fish.

(g) ACQUISITIONS.

INVERTEBRATES—**Coelenterata.** (Zoophytes, Sea Anemones, etc.)

Specimens of *Tubularia indivisa*, Linn.; *Garveia nutans*, T.S.W.; *Aleyonium digitatum*, Linn.; *Urticina crassicornis*, Mull. and *Metridium dianthus*, Ellis (D. 29. 3. 98. 2-6); collected at Hilbre Island by members of the Staff.

Coral (*Agaricia* sp.) from Bermuda (D. 10. 5. 98. 2); presented by Mr. R. Powell.

Two Fossil Corals (*Astræa collaris*, Fraas and *Phyllocoenia* sp.), from Abeih, Palestine (D. 26. 7. 98. 32 & 33); purchased.

Specimens of Sea-Fans (*Gorgonia* spp.), from Futa, Congo Francais, West Africa (D. 9. 8. 98. 4); presented by Mr. A. Ridyard.

Collection of Zoophytes from rocks near Melbourne, Australia, containing *Sertularia operculata*, L. ; *Plumularia aglaophenia* Linn. ; *Tubularia* sp. and others (D. 23. 8. 98. 10-12) ; presented by Miss Wigram.

Silicified Coral (*Isastræa tisburyensis*) (D. 16. 12. 98) ; presented by Mrs. Butt.

Echinoderma. (Starfishes, etc.)

Fossil Echinoderma (*Cidarites glandarius*, Lang and others) (26. 7. 98. 34-37) ; purchased.

Polished longitudinal section of the base of the stem of a Crinoid (*Apiocrinus* sp.) (D. 16. 12. 98. 2) ; presented by Mrs. Butt.

Vermes. (Worms, etc.)

Tape-Worms (*Taenia* sp.) from intestine of a Dace (D. 12. 5. 98. 1).

Collection of Polyzoa from rocks near Melbourne, Australia, containing *Bicellaria juba*, *B. grandis*, *Bugula dentata*, *Flustra* sp. and others (D. 23. 8. 98. 2-9) ; presented by Miss Wigram.

Arthropoda.

Crustacea (Crabs, Lobsters, etc.)

Specimens of *Pycnogonum litorale* (Ström.) and *Corophium grossipes* (Linn.) (D. 29. 3. 98. 7 & 8) ; collected at Hilbre Island by members of the Staff.

Fossil Cray-fish (*Pseudastacus* sp.), from the chalk of Halsel, Palestine (D. 26. 7. 98. 31) ; purchased.

Cray-fish (*sp. indet.*) from Rio del Rey, W. Africa (D. 23. 11. 98. 4) ; presented by Mr. Forman, *per* Mr. Ridyard.

Two Sea-slaters (*Ligia oceanica*, L.) from the Channel Islands (D. 16. 12. 98. 4) ; collected and presented by Mr. Entwistle.

Tracheata. (Insects, Spiders, etc.)

Beetle (*Geotrupes stercorarius*, Linn.) (D. 25. 1. 98. 1) ; presented by Mr. Donald Sutherland.

Spiders (*Paradesis tubicola*, Pocock), from Wynberg, Cape Colony (D. 8. 2. 98. 1) ; presented by Mr. W. Abraham. [A new species. see Bulletin of the Liverpool Museums, Vol. 1, Nos. 3 and 4, p. 75.]

Beetle (*sp. indet.*), found among seed from the Himalayas (D. 22. 2. 98. 1) ; also one (*sp. indet.*), found in a seed-vessel of a plant from Japan (D. 29. 3. 98. 2) ; presented by Mrs. H. A. Bulley.

Spider (*Mygale bistrata*, Koch), from near Valparaiso (D. 10. 3. 98. 1); purchased.

A number of Ants (*sp. indet.*), found in a white-wood log from Baltimore, in timber yard, Liverpool (D. 29. 3. 98. 17); and a Beetle (*sp. indet.*), found in an ash-tree log, probably from Ireland (D. 29. 3. 98. 18); presented by Mr. W. Swan.

Collection of Lepidoptera (*spp. indet.*) containing about twelve species from Bululand, Cameroons (D. 19. 4. 98. 1-10); Caterpillar (*sp. indet.*), from Boma, West Africa (D. 19. 4. 98. 13); presented by Mr. A. Ridyard.

Stick Insect (*Palophus centaurus*, Westw.), from Muni R., Eloby, W. Africa (D. 19. 4. 98. 11); presented by Mr. G. W. Stokes, *per* Mr. A. Ridyard.

Scorpion (*Buthus afer*, Linn.), from Cameroon, W. Africa (D. 19. 4. 98. 12); presented by Mr. J. E. Gibney, *per* Mr. Ridyard.

Spider (*sp. indet.*), found in basement of Museum (D. 26. 4. 98. 1).

Beetles (*Silpha rugosa*, Linn.), from Hoylake (D. 10. 5. 98. 1); collected by the Director.

Water Scorpion (*Belostoma heldemanum* (?) L.) from North America (D. 10. 5. 98. 3); collected and presented by Councillor Hyslop Maxwell, Jun.

American Beetle, found in pine deals (D. 28. 5. 98. 1); Larva of Beetle found in English ash (D. 28. 5. 98. 2); presented by Mr. W. Swan.

Death's Head Moth (*Acherontia atropos*, L.), found near the mouth of the Mersey (D. 8. 6. 98. 1); purchased.

Cinnabar Moth (*Euchelia jacobae*, L.) from Hoylake (D. 11. 6. 98. 1); collected by the Director.

Lamellicorn Beetle (*sp. indet.*) and larvæ, from West Africa, taken living from block of mud containing Mud Fish (D. 4. 7. 98. 1 & 2); presented by Mr. A. Ridyard.

Spiders (*Mygale* sp.) from West Africa (D. 12. 7. 98. 1); presented by Messrs. J. Bruce & Sons.

Sheep-tick (*Ixodes ricinus*, L.), found in yard of a dwelling-house, Liverpool (D. 26. 7. 98. 1); presented by Mr. T. A. Bibby.

Millipede (*Spirostreptus* sp.); Spiders (*Nephila* sp.) and Orthopterous insect (*Hetrodes* sp.), from Bululand, Cameroons, West Africa (D. 9. 8. 98. 1-3); presented by Mr. A. Ridyard.

Four Wood-boring Beetles taken from American timber (*spp. indet.*) ; Common Wasp (*Vespa vulgaris*, L.) and Spiders (D. 13. 9. 98. 30-36); presented by Mr. W. Swan.

Spider (*sp. indet.*) found on packing around Stone Chairs from Peru (D. 13. 9. 98. 1).

Three Specimens of the Irish variety of the Common Blue Butterfly *Lycena icarus*, Rott. ♂ and 2 ♀), from Sligo (D. 13. 9. 98. 38) ; presented by Mr. Percy H. Russ.

Specimen of the Silver Y Moth (*Plusia gamma*, L.) and chrysalis from New Brighton (D. 13. 9. 98. 39 & 40) ; the Cabbage Moth (*Mamestra brassicae*, L. ♂), and the Pale Mottled Willow Moth (*Caradrina quadripunctata*, F.) (D. 3. 10. 98. 1); from Liverpool.

Six specimens of the Concolorous Moth (*Tapinostola concolor*, Gn.) (D. 3. 11. 98. 1) ; received in exchange.

Collection of 22 specimens of Lepidoptera from Cameroon, W. Africa (D. 23. 11. 98. 1) ; presented by Mr. G. W. Stokes *per* Mr. A. Ridyard ; and a collection of 41 specimens of Lepidoptera from Quibu, Upper Congo, W. Africa (D. 23. 11. 98. 2) ; presented by Mr. A. Ridyard.

Collection of Lepidoptera from Carwar, Bombay Presidency (D. 15. 98. 1) ; presented by Mr. F. Dresser.

Mollusca.

Specimens of *Archidoris tuberculata*, Cuv. ; *Lamellidoris bilamellata*, Linn. *Eolidia papillosa*, Linn. ; *Coryphella rufibranchialis*, Johnst. ; *Cuthona nana*, Ald. and Han. ; *Dendronotus arborescens*, O. F. M., and *Tritonia hombergi*, Cuv., from Hilbre Island ; and *Cratena concinna*, Ald. and Han., from Leasowe (D. 29. 3. 98. 9-16) ; collected by members of the Staff.

Fossil Cephalopod (*Nautilus parkinsoni* Edwards (?)), from New Zealand (D. 10. 5. 98. 4) ; purchased.

Two specimens of *Sepiola atlantica*, D'Orb., from the Estuary of the Mersey (D. 15. 6. 98. 1) ; purchased.

Collection of Fossil Mollusca from Palestine :—*Hippurites liratus*, Conrad ; *Nerinea pauwilla*, Hamlin ; *N. schickii*, Fraas ; *Rostellaria rustemi*, Fraas ; *Natica patulaeformis*, Fraas ; *N. scalaris*, Whitfield ; *Cytherea lebanotica*, Fraas ; *Corbiculopsis birdi* (Whitfield) ; *Cerithium provinciale-plicatum*, Fraas ; *C. orientale*, Conrad ; *Neritopsis ornata*, Fraas ; *Eunema bicarinata*, Hamlin ; *Phasianella abeihensis*, Fraas ; *Colostroacon curtum*, Hamlin ; *Amauropsis subcanaliculata*, Hamlin ; *A. sp.* ; *A. abeihensis*, Hamlin ; *Trigonia*

pseudocrenulata, Noething; *Ammonites syriacus*, Conrad; *Vola syriacea*, Conrad; *Rhynchonella* sp.; *Actæonella absalomis*, Fraas; *Cardium judaicum*, Hamlin; *Actæonina vafra*, Hamlin; *Perna orientalis*, Hamlin; *Cyprina abeihensis*, Hamlin; *Turbo moreli*, Fraas, and others (D. 26. 7. 98. 2-29); purchased.

Small Cuttle-fish (*sp. indet.*) from Ukaka, West Africa (D. 9. 8. 98. 5); presented by Mr. W. G. Stokes, per Mr. A. Ridyard.

Collection of Marine Shells from Santa Cruz and Australia:—*Cypræa cernus*, Linn; *C. lynx*, Linn. var. *caledonica*; *C. serpentis*, Linn.; *Funella undulata*, Bolt.; *Ricinula spectrum*, Reeve; *Cronia amygdala*, Kien.; *Purpura electrina*, Montf.; *Strombus floridus*, Lam.; *Nassa spiralis*, A. Ad.; *Ancilla montrouzieri*, Sow.; *Conus eburneus*, Brug.; *C. anemone*; *Chiton dwergens*, Reeve; *C. australis*, Sow.; *C. jugosus*, Gld.; *C. faticosus* (Gld.); *C. haddoni*; *C. piceus*, Gm. *Isnochiton pallidulus*, Reeve; *Ornithochiton lyelle*, Sow.; *Cassidula faba*, Mk.; *Bulla ovula*, Gld.; *Risella nana*, Lam.; *Tellina rugosa*, Born.; *Parnophorus australis*, Lam., and *Asaphis deflorata*, Bolt. (D. 13. 9. 98. 1-29); presented by Mr. J. Jennings.

Shell (*Cassis spinosa*, Gron.) from Loanda, West Africa (D. 23. 11. 98. 3); presented by Mr. A. Ridyard.

Shell (*Chiton spinosus*) (D. 16. 12. 98. 3); presented by Mrs. Butt.

CHORDATES.

Fishes.

Siluroid Fish (*sp. indet.*) from Rio del Rey, West Africa (C. 19. 4. 98. 1); presented by Mr. A. Ridyard.

Two specimens of *Centrina salviani*, Risso, taken off Belle Isle, France (C. 26. 4. 98. 1); presented by Mr. Low.

Collection of Fossil Fish from the Cretaceous formation of Palestine:—*Cyclobates major*, Davis; *Eurypholis* sp.; *Beryx ovalis*, Davis; *Eurygnathus* sp.; *Erocoetus minor*, Davis; *Palæobalistum* sp. and *Platar minor*, Pictet (C. 10. 5. 98. 1-7); purchased.

Six blocks of mud containing West African Mud-fish (*Protopterus annectens*, Owen) (14. 6. 98. 1); presented by Mr. A. Ridyard.

Specimens of West African Fish (*Pentanemus quinquarius*, Linn.; *Trichiurus lepturus*, Linn. juv. and others (*spp. indet.*) (C. 9. 8. 98. 1-5); presented by Mr. W. G. Stokes, per Mr. Ridyard.

Perch (*Percu fluviatilis*, Rond.) (C. 4. 9. 98. 1); Eel (*Anguilla vulgaris*, Linn.) (C. 23. 9. 98. 1); died in Aquarium.

Eleven specimens of Indian Walking Fish or Serpent Heads (*Ophiocephalus punctatus*, Bl.) and nineteen specimens of *Heros facetus* (Jenyns), from Central America (C. 3. 11. 98. 1 & 2); received in exchange.

Ganoid Fish (*Calamoichthys calabaricus*, Smith) (C. 3. 11. 98. 1); presented by Mr. A. Ridyard.

Nine Electric Cat-fish (six living) (*Malapterurus electricus*, Linn.) and sixty Walking Fish (*Periophthalmus koelreuteri*, Pall.) (C. 11. 11. 98. 2 & 3); presented by Mr. Forman, per Mr. Ridyard.

Eggs and larvæ of different ages of the two North American Ganoid Fishes (*Amia calva* Bonap. and *Lepidosteus* sp.) and eggs of *Bdellostoma* and *Chimæra* (C. 31. 12. 98. 1-4); received in exchange.

Amphibians.

Two Mexican Axolotls (*Amblystoma tigrinum*, Green) (C. 21. 5. 98. 1); died in Aquarium.

Reptiles.

Stump-tailed Lizard (*Trachysaurus rugosus*, Gray), from Australia (B. 8. 2. 98. 21); presented by Mrs. Pechey, Hope, North Wales.

Two Snakes (*Calabaria reinhardti*, Schl., and *Simocephalus poensis*, Gray) from Cameroon, West Africa (B. 19. 4. 98. 3 & 4); presented by Mr. E. Gibney, per Mr. A. Ridyard.

Three Snakes (*Python sebae*, Dum. and Bibr.; *Naja melanoleuca*, Matsch.; and another (*sp. indet.*); a Crocodile (young) from West Africa (B. 12. 7. 98. 1-4); presented by Messrs. Bruce & Son.

Chameleon (*Camæleon oweni*, Gray); Lizard (*Varanus niloticus*, juv. Dum. and Bibr.); and two Snakes (*spp. indet.*) (B. 9. 8. 98. 1-4); presented by Mr. A. Ridyard.

Chameleon (*Chamæleon basiliscus*, Cope) (15. 8. 98. 1); purchased.

Two Sea Snakes (*Platurus colubrinus*, Gir.) from Indian Seas (B. 16. 12. 98. 1); presented by Dr. Moore.

Two Snakes (*Dromicus ater*, Gunth.), black and olive varieties, from Jamaica (B. 16. 12. 98. 2 & 3); presented by Mr. Walker.

Gecko (*sp. indet.*), found in box of bananas from the Canary Islands (B. 21. 12. 98. 1); presented by Mr. J. H. Brown.

Snake (*Tropidonotus natrix*, Boie. var. *astreptophorus*, Secane), found in crate of melons from Valencia (B. 21. 12. 98. 4); presented by Mr. Haslam.

Nose-horned Viper (*Bitis nasicornis*, Bütt.), from Cameroon, West Africa (B. 21. 12. 98. 5); presented by Mr. W. G. Stokes, per Mr. A. Ridyard.

Young Crocodile (*sp. indet.*) from Africa (B. 21. 12. 98. 6); presented by Mr. T. Mitchell.

Birds..

The species indicated by an asterisk are new to the Collection.

Ringed Dotterel, *Ægialitis hiaticula* (Linn.), ♀, shot on the River Teign, South Devon (B. 11. 1. 98. 1); presented by Mr. Richard Owen.

Specimens collected by Mr. Mansfield Parkyns in Abyssinia:—*Haliæetus vocifer*, Daud.; *Butes augur*, Rüpp.; *Butes* (sp. indet.); **Centropus monachus*, Rüpp., ♂, *Columba guinea*, Linn.; **Thammodæ semirufa* (Rüpp.); *Colinus macrurus* (Linn.); **Bucorax abyssinicus* (Bodd.); *Limnœcorax niger* (Gm.); *Galerida isabellina*, Bp. (B. 8. 2. 98. 1-10); purchased.

Penguin (*Spheniscus humboldti*, Meyen) and Pelican (*Pelecanus thagus*) (Mol.) (B. 8. 2. 98. 11 & 12); purchased.

Specimens from the Nicobar and Andaman Islands:—*Excalfactoria chinensis* (Linn.), ♀; *Centropus andamanensis*, Beavan, ♀; *Palæornis fasciata* (Mull.), ♂; **Turnix albiventris*, Hume, ♂; *Sturnia erythropygia*, Blyth, ♂ and 2 ♀ (one immature), female new to collection; *Oriolus andamanensis*, Tytler, ♂ imm.; *Geocichla andamanensis*, Wald., ♂ and ♀; *Dendrocopus andamanensis* (Blyth), ♂; *Cinnyris pectoralis* (Horsf.), ♀; **Nettion albigulare*, Hume, ♂ and ♀ (B. 8. 2. 98. 11-20); purchased.

Specimens from New Guinea and Fergusson Island:—**Paradisea decora*, Salv. and Godm., ♂ (new to collection) and ♀; **Epimachus meyeri*, Finsch, ♂ and ♀; **Phonygama hunsteini*, Sharpe, ♂; **Amblyornis subalaris*, Sharpe, ♂ (B. 22. 2. 98. 1-4); purchased.

Specimens from the Philippine Islands:—**Chrysocolaptes rufopunctatus*, Harg., ♂ and ♀; **Thriponax hargitti*, Sharpe, ♂ (B. 8. 3. 98. 1 & 2); purchased.

Pternistes leucoscepus, G. R. Gr., 3 ♂ (B. 19. 4. 98. 1); purchased.

Nest of Flamingo (B. 19. 4. 98. 2); presented by the Trustees of the British Museum.

Tigronis leucolophus (Jrd.) from Ukaka, Eloby, West Africa (B. 19. 4. 98. 5); presented by Mr. W. G. Stokes, per Mr. A. Ridyard.

Specimens of Bird Skins, ex J. Whitehead's Collection from the Philippine Islands:—*Turdus mindorensis*, Grant, ♂ and ♀; *Pitta steerii* (Sharpe), ♂ and ♀; **Bolbopsittacus intermedius*, Salvad. ♂ juv.; **Loriculus regulus*, Souancé, ♀; **L. worcesteri*, Steere, ♂; **Iole everetti*, Steere, ♂ and ♀; **Artamides panayensis*, Steere, ♂; **Edoliisoma panayensis*, Steere, ♂; **Rhinomyias ruficauda*, Sharpe, ♂; **R. albigularis*, Bourns and Worces. ♀; **Orthotomus castaneiceps*, Wald., ♂; **Dendrophala cenochlamys*, Sharpe, ♂; **Dicæum everetti*, Tweed., ♂; **Macronus mindanensis*, Steere, ♂ and ♀, and *Rhipidura albiventris* (Sharpe), ♀ (B. 26. 4. 98. 1-15); purchased.

Specimens of Bird Skins, *ex* H. O. Forbes's Collection, from the Chatham Islands:—2 *Hemiphaga chathamensis* (Rothsch.); *Gallinago pusilla*, G. R. Gr. 2 ♀; and *Thinornis novæ-zealandiæ* (Gm.) (B. 26. 4. 98. 16-18); presented by the Director.

Specimens of Bird Skins from N. W. New Guinea:—**Amblyornis inornata* (Schleg.) 2 ♂; **Ptilopus trigeminus*, Salvad.; *Phlogænas rufigula* (Puch. and Jacq.); *Calornis* sp. nr. *crassa*, Sclat.; **Astrapia splendidissima*, Rothsch. ♂ and ♀; *Parotia caroli*, Meyer, ♂ (ad. and juv.); and **Hydrulector novæ-guinæe* (Rams.) (B. 10. 5. 98. 1-7); purchased.

Specimens of Bird Skins from Costa Rica, *ex* C. F. Underwood's Collection:—**Catharus frantzii*, Cab. ♂; *C. gracilirostris*, Salv., ♂; *Calliste dowi*, Salv., ♂ and ♀; **Chlorophonia callophrys* (Cab.) ♂; **Phænicothraupis vinacea*, Lawr., ♂ (ad. and juv.) and ♀; **Buarremon capitalis* (Cab.) ♂; **Oryzoborus junereus*, Sclat., ♂; **Spermophila moreleti*, Bp.; **Embernagra superciliosa*, Sclat., ♀; **E. striaticeps*, Lafr., ♂ and ♀; **Phainoptila melanozantha*, Salv., ♂ and ♀; **Diglossa plumbea*, Cab., ♂; **Odontophorus guttatus*, Gould, ♂; **Trogon aurantiventris*, Gould, ♂; **Morococcyx erythropygia* (Less.), ♀; **Melanerpes hoffmani* (Cab.), ♀; *Glaucidium phalaenoides* (Dand.), ♂ and ♀; **Eugenes spectabilis* (Lawr.), ♂ and ♀; **Panteryx insignis*, Cab. and Heine, ♂; **Oreopyra cinereicauda*, Lawr., 2 ♂; **Klais guimeti*, Bourc. and Muls., ♂; **Doricha bryantæ*, Lawr., ♂; *Formicarius umbrosus*, Ridgw., ♂ and ♀; *Polioptila albiloris*, Sclat. and Salv., ♂ and ♀; *P. bilineata*, Bp. ♂ juv.; *Henicorhina leucosticta* (Cab.), ♂ and ♀; *H. leucophrys* (Tsch.) ♂; *Rhamphocænus semitorquatus*, Lawr., ♂; *R. rufiventris* (Bp.), ♂ and ♀; *Hypocnemis nœvioides* (Lafr.), ♂ and ♀; *Dendrocincla homochroa* (Sclat.), ♂ and ♀; *Picolaptes compressus* (Cab.), ♂ and ♀; *Siptornis erythropus* (Sclat.), ♀; **Selasphorus flammula*, Salv., 2 ♂ and 2 ♀; *Floricola constanti* (Delattre), ♂ juv.; **Microchera parvirostris* (Lawr.); *Elainea placens*, Sclat., ♂ and ♀; *Myiarchus nuttingi*, Ridgw., ♂ and ♀; *Empidonax atriceps*, Salv., ♂; *E. flavescens*, Lawr., ♀; *Attila* sp., ♀; *Thryothorus hyperythrus*, Salv. and Godm.; *Thryophilus rufulus* (Lafr.), 2 ♂; *T. chlorostictus*, Sclat. and Salv., ♂ and ♀; *Chlorospingus pileatus*, Salv., ♀; *Mionectes oleaginus* (Licht.), ♂; *Tyranniscus parvus*, Lawr., ♂; *Oncostoma cinereigulare*, Sclat., ♂; *Geothlypis caninucha*, Ridgw., ♂; *Vireo olivaceus* (Linn.), ♂ and *V. josephæ* (B. 14. 6. 98. 1-51); purchased.

**Cissa jeffreyi*, Sharpe, ♂, from North Borneo, and **Sarcophanops samarensis*, Steere, ♂, juv., from Samar, *ex* Whitehead's Collection (B. 14. 6. 98. 52 and 53); purchased.

Specimens of Bird Skins from the Philippine Islands, *ex* J. Whitehead's Collection:—**Oriolus steerii*, Sharpe, ♂ and ♀; *Rhipidura albiventris* (Sharpe), ♂; **Stoparola panayensis* (Sharpe), ♂ and ♀; **Turdus nigrorum*, Grant, ♂ and ♀; **Zosterops siquijorensis*, Bourns and Worces.; **Hypothymus samarensis*, Steere, ♂ and ♀; *Dendrophila cenochlamys*, Sharpe, ♀; **Zosterornis nigrocapitatus* (Steere), ♂ and ♀; **Arachnothera philippinensis* (Steere), ♂; **Eudrepanis pulcherrima* (Sharpe) juv. and **Turnix whiteheadi*, Grant, ♂ (B. 28. 6. 98. 1-11); purchased.

Hornbill (*Ceratogymna atrata*, Temm, ♀), from Ukaka, West Africa (B. 9. 8. 98. 5); presented by Mr. Stokes, *per* Mr. Ridyard.

Four Lesser Purple Gallinules (*Porphyriola alleni* (Thomps.)) (B. 9. 8. 98. 6); presented by Mr. S. Smith, *per* Mr. A. Ridyard.

Collection of Birds from New Guinea (B. 11. 10. 98. 1-6); purchased:—**Astrarchia stephanie*, Finsch, ♂, ♂ juv. and ♀; **Paradisornis rudolphi* Finsch and Meyer, ♂; **Lophorhina minor*, Rams., ♂; **Drepanornis cervinicauda*, Sclat, ♂; **Diphyllodes humsteini*, Meyer, ♂; and *Macgregoria pulchra*, De. Vis.

Indian Bronze Fruit Pigeon (*Carpophaga aenea* (Linn.)) (B. 11. 10. 98. 8); purchased.

Collection of Bird Skins from New Zealand and neighbouring Islands:—*Cathartactes sclateri*, Buller, ♂; **Æstelata cervicalis*, Salv. ♂ and ♀; *Phalacrocorax chalconotus*, G.R. Gr. ♀; *P. varius* (Gm.), ♂ and ♀; **P. campbelli* (Filhol.) ♂ and ♀; **P. colensoi*, Buller, ♂; and **Apteryx lawryi*, Buller, ♂; (B. 18. 10. 98. 1-7); purchased.

Hawk (*Urotriorchis macrurus* Temm.), from West Africa (B. 24. 10. 98. 1); presented by Mr. A. Ridyard.

Rook (*Trypanocorax frugilegus*, Linn.) from Eceleston, St. Helens (B. 24. 11. 28. 1); presented by Mr. T. West.

Five Bird Skins:—*Caprimulgus europæus*, Linn., ♀; *Glaucidium castaneonotum* (Blyth); *Pitta baudi*, Müll. and Schleg; *Ceyx malamanui*, Steere, ♀; and **Oriolus boneratensis*, M. and W., ♂ (B. 24. 11. 98. 1-6); presented by Mr. H. C. Robinson.

Cassowary (**Casuarius beccarii*, Sclat. ♀ juv.) (B. 24. 11. 98. 7); purchased.

Collection of Bird Skins from Talaut Island:—**Tanygnathus talauteensis*, Mey. and Wigl., ♂ and ♀; **Prioniturus platurus*, Temm. sub. sp. *talauteensis*, Hart., ♂ and ♀; **Eos histrio* (Müll.) sub. sp. *talauteensis*, M. and W.; *Zeocephus talauteensis*, M. and W., 2 ♂ and ♀; *Calornis sanghirensis*, Salvad, ♂ and 3 ♀; **Oriolus melanisticus*, M. and W., 2 ♀; **Edolisoma talauteense*, M. and W., ♂ and ♀; *Cinnyris talauteense*, M. and W., 2 ♂, 2 ♂ juv. and ♀;

**Dicæum talaotense*, M. and W., ♂; **Pitta inspeculata*, M. and W., ♂ and ♀; *Myristicivora bicolor* (Scop.), ♂ and ♀; *Ptilopus xanthorrhous*, Salv. 2 ♂ and ♀; *Monticola solitarius* (P. L. S. Müll.), ♂ juv.; *Eudynamis mindanensis* (Linn.), ♂ and ♀; *Centropus bengalensis* (Gm.), ♀; *Halcyon chloris* (Bodd.), ♀; *Eurystomus orientalis* (Linn.), ♂; *Carpophaga concinna*, Wall., ♀; *Charadrius dominicus*, P. L. S. Müll., ♂; *Monarcha inornata* (Garn.), ♂; and **Megapodius sanghirensis*, Schleg. (B. 15. 12. 98. 1-21); purchased.

Collection of *Œpyornis* Remains, made by Dr. Forsyth Major, from the marshes of Sirabē, Central Madagascar, consisting of Cranium, Mandibles, Vertebrae, Shoulder-bones, Leg-bones, Sternum, Sacrum, etc., etc. (B. 20. 12. 98. 1); purchased.

Mammals.

Human Skull and Lower Jaw of Native from the Hoogley, India (A. 8. 2. 98. 1); presented by Mrs. Pechey, Hope, Wales.

Heteromys alleni, ♂ and ♀ (A. 8. 3. 98. 1); skins deposited with the Director.

Skeletons of Koala (*Phascolarctus cinereus*, Goldf.), and Gorilla (*G. gorilla*, Wy.) (A. 8. 3. 98. 2 & 3); purchased.

Vertebra of a Whale, found exposed on the shore at Leasowe, between tide marks (A. 29. 3. 98. 1); purchased.

Three Human Brains (A. 29. 3. 98. 2); presented by Prof. Paterson, University College, Liverpool.

Black Howler Monkey (*Alouatta nigra*, Slack) (A. 12. 4. 98. 1); purchased.

Collection of Skins of Rodents from Nyassaland, ex Sir H. H. Johnston's Collection, [c] A. Whyte:—*Mus chrysophilus*, De Wint, 2 ♂; *M. arborarius*, Pet., ♂; *Georychus whytei*, Thos., ♂ and ♀; *Otomys irroratus*, Bts., ♂ and ♀; *Dendromys mesomelas*, Bts., ♀; *D. pumilio*, Wagn., ♀; *Golunda fallax*, Pet., 2 ♀; *Gerbillus (Tatera) leucogaster*, Pet., ♂ and ♀; *Lophuromys aquilus*, True., ♂, and *Dasymys kaiseri*, Noack., ♂ (A. 19. 4. 98. 1-10); presented by the Trustees of the British Museum.

Collection of Mammals from Madagascar, ex Dr. Forsyth Major's Collection:—*Lemur mongoz*, Linn., var. *rufipes*, ♀; *Lepidolemur microdon*, Maj., ♂; *Proptithecus diadema*, Bennet, var. *edwardsi*, ♂; *Avahis laniger* (Gm.), ♂; *Micocebus smithii* (Gray) var., ♀; *Centetes caudatus* (Schreb.); *Ericulus setosus* (Schreb.); *Hemicentetes nigriceps*, Gunth., ♀; *Microgale dobsoni*, Thos., ♀; *M. cowani*, Thos. var. *nigra*, ♂; *M. cowani*, Thos., ♀; *Oryzoryctes tetradactylus*, M. Eds., ♂; *Brachyuromys betsileoensis* (Bartl.), ♂; *B. ramirochitra*, Maj., ♂; *Nesomys rufus*, Pet., ♀; *Eliurus majori*, Thos., ♂; *Gymnuromys roberti*, Maj., ♀; and *Viverricula malaccensis* (Gmel.), ♀ (A. 19. 4. 98. 11-28); purchased.

Two Pouched Rats (*Cricetomys gambianus*, Waterhouse, ♂), from Fernandez Po, West Africa (A. 9. 4. 98. 29); presented by Mr. A. Ridyard.

Squirrel (*sp. indet.*) found at the root of a tree, near Fraser River, British Columbia (A. 10. 5. 98. 1); presented by Mr. T. H. Jones.

Giant Kangaroo (*Macropus giganteus*, Shaw); Harnessed Antelope (*Tragelaphus scriptus* (Pall.)); and an Indian Elephant (*Elephas indicus*, Cuv.) (A. 24. 5. 98. 1-3); presented by Mr. J. A. Bailey.

Mandrill (*Papio maimon*, Erxl., ♂) (A. 14. 6. 98. 1); Gorilla (*Gorilla gorilla*, Wy., ♀); Buffalo Horn (A. 9. 8. 98. 1 & 2); presented by Mr. A. Ridyard.

Collection of Mammalian Skins from Western Mexico (A. 9. 8. 98. 3-35); purchased:—*Neotoma fusciceps*, ♂ and ♀; *N. torquata*, ♂ and ♀; *N. alleni*, ♂ and 2 ♀; *Tamias lencurus peniculae*, ♂ and ♀ and 3 juv.; *Sigmodon*, sp., 2 ♂ and 3 ♀; *Thomomys fulvus anitae*, Allen, 1 ♂ and 5 ♀; *T. atrovarius*, Allen, ♀; *Dipodomys melanurus*, 2 ♂ and ♀; *Heteromys pictus*, ♂ and 2 ♀; *Mus rattus-alexandrinus*, Et. Geoff., ♂ and ♀; *M. musculus*, Linn., ♂; *Peromyscus taylori*, ♀; *Oryzomys mexicanus*, ♀; *Perognathus fallax*, 2 ♂ and 2 ♀; *P. pernix*, Allen, 2 ♂ and 2 ♀; *Peromyscus thurbei*, 3 ♂ and ♀; *P. eva*, Thom., ♂ and ♀; *P. urticus*, ♀; *Sciurus*, sp. ♂ and 2 ♀; *Lepus*, sp., ♀ and ♀ juv.; *Notio-sorex crawfordi*, Bd., ♂ and ♀; *Sarcopteryx plicata*, Dobson, ♂ and 2 ♀; *Myotis* sp., 2 ♂ and 2 ♀; *Macrotis californicus*, Baird, ♂; *Molossus rufus*, Et. Geoff., ♂ and ♀; *Atalapha borealis*, 2 ♂; *Didelphys marsupialis*, 2 ♂ and 3 ♀; *Taxidea americana*, ♂; *Vulpes cinereo argentatus*, ♂; *Nasua narica*, Allen, ♂ and ♀; Marsupial (*sp. indet.*) and *Coassus*, sp. (A. 9. 8. 98. 3-35); purchased.

A selection of twenty-five casts of typical faces of natives of the Pacific Islands and the Malay Archipelago, taken from life by Dr. O. Finsch (A. 27. 9. 98. 1-25); purchased.

A Collection of Fossil Remains consisting of bones of the horse, antlers of deer, etc., made by Dr. Forsyth Major from the Upper Pliocene deposits of Olivola, Valley of the Magra, Province of Massa, Carrara. Tuscany (A. 11. 10. 98. 1); purchased.

Genet Cat (*Genetta senegalensis*, (Fischer) juv.) from Old Calabar, West Africa (A. 21. 10. 98. 1); presented by Mr. J. H. Holland.

White Collared Mangabey (*Cercocebus collaris*, Gray); Bosman's Potto (*Perodicticus potto*, V. der Hoeven) (A. 22. 10. 98. 1 & 2); presented by Mr. Smith, per Mr. Ridyard.

Young Drill (*Papio leucophæus*, Schl.); Gazelle (*sp. indet.*) (A. 22. 10. 98. 3 & 4); Genet Cat (*Genetta senegalensis*, (Fischer) juv.) and Gorilla Skull (A. 23. 11. 98. 1 & 2); presented by Mr. A. Ridyard.

Carcase of thorough-bred Arab Horse (A. 15. 12. 98. 1); presented by Mr. W. H. Quilliam.

Gazelle (*sp. indet.*) (A. 15. 12. 98. 2); purchased.

BOTANICAL DEPARTMENT.

The following are the acquisitions in this Department :—

Two small Palm (?) Nuts, found in a crack in a log of African Mahogany at Ashcroft's Timber Yard, Seel Street (E. 6. 5. 98. 1) ; received from the Director of Museums.

Four Fern Fronds (*Polypodium Phegopteris*, L.) and two Fern Fronds (*Asplenium marinum*, L.) (E. 28. 5. 98. 1-2) ; presented by Mr. Adam, New Ferry.

Plants collected for the Museum by Mr. Wm. S. Laverock at New Brighton, Wallasey and Liscard (E. 7. 6. 98. 1-28) :—*Ranunculus bulbosus*, L., *Capsella Bursa-pastoris*, Moench., *Brassica monensis*, Huds., *B. campestris* var. *Napus*, L., *B. Sinapistrum*, Boiss., *Raphanus Raphanistrum*, L., *Camelina sativa*, Crantz, *Lychnis vespertina*, Sibth. *Silene anglica* (?), L., *Erodium cicutarium*, L'Hérit., *Ononis arvensis*, L., *Lotus corniculatus*, L., *Senecio vulgaris* var. *radiata*, Koch, *Bellis perennis*, L., *Taraxacum officinale*, Web., *Veronica Chamædrys*, L., *Convolvulus arvensis*, L., *Solanum Dulcamara*, L., *Linaria Cymbalaria*, Mill., *Plantago lanceolata*, L., in ♂ and in ♀ flower, *Rumex Acetosella*, L., ♂ and ♀, *Carum Carui*, L., *Solanum Dulcamara*, L., with abnormal peduncles.

An Alga (*Dumontia filiformis*, Grev.) from the shore, Hilbre Island (E. 10. 6. 98. 1) ; collected by Mr. Wm. S. Laverock.

Plants collected for the Museum by Mr. Wm. S. Laverock, between Eastham and Spital (E. 14. 6. 98. 1-26) :—*Fumaria officinalis*, L., *Capsella Bursa-pastoris*, Moench., *Cochlearia officinalis*, L., *Stellaria Holostea*, L., *S. graminea*, L., *Spergula arvensis*, L., *Vicia hirsuta*, Koch, *V. angustifolia*, Roth, *Trifolium minus*, Sm., *Potentilla reptans*, L., *Conopodium denudatum*, Koch, *Armeria maritima*, Willd., *Glaux maritima*, L., *Plantago maritima*, L., *Melampyrum pratense*, L., *Veronica Chamædrys*, L., *Lamium purpureum*, L., Seedlings of *Fagus silvatica*, L., *Bromus mollis*, L., one of the *Polyporei*, leaf of *Acer Pseudo-platanus*, L., galled.

Plants collected for the Museum by Mr. Wm. S. Laverock in the neighbourhood of Formby (E. 7. 7. 98. 1-34) :—*Papaver dubium*, L., *Sisymbrium Sophia*, L., *S. officinale*, Scop., *Polygala vulgaris*, L., *Ononis arvensis*, L., *Medicago sativa*, L., *Melilotus officinalis*, Desr., *Vicia Cracca*, L., *Lotus major*, Sm., *Lathyrus pratensis*, L., *Trifolium arvense*, L., *T. procumbens*, L., *Anthyllis Vulneraria*, L., *Anthriscus vulgaris*, Pers., *Galium verum*, L., *Anchusa arvensis*, Bieb., *Myosotis arvensis*,

Hoffm., *M. palustris*, With., *Hypochaeris radicata*, L., *Rhinanthus Crista-galli*, L., *Linaria vulgaris*, Mill., *Veronica Anagallis*, L., *Anagallis arvensis*, L., *Eschscholtzia californica*, *Asparagus officinalis*, L., *Sedum acre*, L., *Oenothera biennis*, L., a fasciated twig of a Willow and normal twigs of the same.

Six water-colour drawings of British Plants (E. 13. 7. 98. 1-6) :—*Stellaria graninea*, flowering twig of *Rubus fruticosus*, *Galium saxatile*, *Solanum Dulcamara*, *Veronica Chamædryas*, *Orchis* sp.; purchased.

Plants collected for the Museum by Mr. Wm. S. Laverock at Bidston, Wallasey, and Liscard (E. 15. 7. 98. 1-17) :—*Viola tricolor*, L., *Reseda Luteola*, L., *Spergula arvensis*, L., *Helosciadium nodiflorum*, Reichb., (*Enanthe fistulosa*, L., *Apium graveolens*, L., *Matricaria Chamomilla*, L., *Ballota nigra* L., (?), *Lycium barbarum*, L., *Polygonum Persicaria*, L., *Euphorbia Peplus*, L., *Scirpus maritimus*, L., *S. palustris*, subsp. *tabernaemontani*, Gmel., *Polygonum Persicaria*, L., with a dichotomous leaf.

One 'Forest' Bean (*indet.*) from Bululand, Cameroons (E. 27. 7. 98. 1); presented by Mr. A. Ridyard.

Seedling of Date Palm (*Phoenix dactylifera*), found growing in William Brown Street (E. 17. 8. 98. 1); collected by Mr. Wm. S. Laverock.

Plants collected for the Museum by Mr. Wm. S. Laverock in the neighbourhood of New Brighton (E. 9. 9. 98. 1-13) :—*Diploxys muralis*, DC., *Reseda Luteola*, L., *Silene inflata*, Sm., *Malva rotundifolia*, L., *Medicago sativa*, L., *Melilotus alba*, Desr., *Oenothera biennis*, L., *Solanum nigrum*, L., *Panicum Crus-galli*, L., *Plantago major*, L., affected with an Erysiphe.

Wild Rose (*Rosa spinosissima*, L.) in fruit, from New Brighton (E. 13. 9. 98. 1); collected by Mr. P. Entwistle.

Eight small dried Fruits (*indet.*) from Banana, Congo River; piece of Stem of the Rubber Vine—"Bulu" (*indet.*) from Bululand, Cameroon; piece of Ebony Wood from Batanga, Cameroon (E. 23. 11. 98. 1-3); presented by Mr. A. Ridyard.

Group of Fungi (*indet.*) and a few isolated older ones (E. 16. 12. 98. 1); found growing on the Whale's Skull on the roof of the Museum buildings.

Piece of Shale—possibly a cast of Scar of *Bothrodendron punctatum*, L. & H., from the Wigan 6-foot Mine (E. 20. 12. 98. 1); presented by Mr. G. A. Haworth.

MINERALOGICAL AND GEOLOGICAL DEPARTMENT.

The acquisitions in this Department are as follows :—

Specimens—including Glaciated Blocks, Boulder Clay, Sand, Gravel, Pebbles, Nodules of Clay, Pebbles in various stages of decomposition, Vein Rock, Sandstone showing ‘Slickensides,’ Fault Rock, “Marl,” Clay and Sandstone—illustrating the geological features of the site of the Museums Extension (F. 21. 1. 98. 1 ; 31. 1. 98. 1 ; 22. 2. 98. 1-3 ; 25. 2. 98. 1 ; 2. 3. 98. 1 ; 5. 3. 98. 1 ; 7. 3. 98. 1 ; 14. 3. 98. 1-3 ; 16. 3. 98. 1 ; 20. 4. 98. 1-3 ; 2. 5. 98. 1 ; 4. 5. 98. 1 ; 5. 5. 98. 1 ; 9. 6. 98. 1 ; 13. 7. 98. 1) ; collected from the excavations for the Museums Extension and Technical School.

Pieces of ‘Clay’ with organic remains and several pieces of black deposit, in masses and branching through the argillaceous clay (F. 3. 5. 98. 1 & 2) ; collected from excavations for building purposes at 23, Houghton Street, Liverpool, by Mr. Wm. S. Laverock

Collection of Egyptian Rocks, consisting of over 100 specimens, made by Dr. G. Schweinfurth in 1885 ; taken from the Store Room, with no reference number, and now referred to Register of this year (F. 24. 5. 98. 1).

Collection of Specimens, mostly Mineralogical :—Galena, Malachite, Azurite, Azurite on Silicate of Copper, Arseniate of Copper, Native Copper, Native Copper in Silicate of Copper, Carbonate of Copper containing native copper and red oxide of copper, Serpentine, Quartz Crystals coated with Iron Pyrites upon Fluor Spar, pieces of Stalactites, Agate, Chalcedony, native Silver in Calcite (very rich), Gold-bearing Quartz (very rich), Specular Iron (F. 28. 6. 98. 1-16) ; presented by Mrs. C. D. Butt.

Boulder—Greywacke—from a seam of coal, Ince Hall Collieries, near Wigan (F. 20. 7. 98. 1) ; presented by Mr. G. A. Haworth.

Five Specimens of Stream Tin—Cassiterite—from the Klondyke Gold Fields (F. 29. 12. 98. 1) ; presented by Mr. Elias Thomas.

THE AQUARIUM.

The Aquarium continues to be one of the chief attractions of the Museum ; special interest being taken in the Mud-fishes, the Walking Fishes, the Electrical Cat-fishes and in the various species of Anthropoids, which have from time to time been on exhibition.

Our efforts to keep in good health and condition the various tropical animals have proved very successful.

The following species have been exhibited alive during the year, those with an asterisk being alive at the date of this report :—

The Fresh-Water Sponge (*Spongilla fluviatilis*); Fresh Water Hydræ * (*Hydra viridis* and *H. fusca*). Sea-Anemones: The Grass (*Tealia crassicornis*); Plumose Anemone (*Actinoloba dianthus*); Beadlet (*Actinia mesembryanthemum*); Cave-dwelling Anemone (*Sagartia troglodytes*); Parasitic Anemone (*Sagartia parasitica*); Pallid Anemone (*Actinia pallida* ?); Star-fish (*Uraster rubens*); Horse-leach (*Hæmopsis vorax*); Sea Mouse (*Aphrodite aculeata*); Fresh-water Polyzoa*; Fresh-water Beetles * (*Dytiscus marginalis*); Tropical Spider (*Mygale bistrata*); Common Lobster (*Homarus vulgaris*); Common Shrimp (*Crangon vulgaris*); Edible Crab * (*Cancer pagurus*); Common Shore Crab * (*Carcinus mænas*); Hermit Crab (*Pagurus bernhardus*); Spider Crab (*Stenorhynchus rostratus*); Prawn (*Palæmon serratus*); * *Palæmonetes varians*; Cuttle Fish (*Sepiola atlantica*); Sea Slugs (*Archidoris tuberculata*, *Lamellidoris bilamellata*, *Eolidia papillosa*, *Tritonia hombergi*, *Cratena concinna*); the Common Planorbis (*P. corneus*); the Pond Snail (*Lymnaea stagnalis*); Fresh-water Eel (*Anguilla vulgaris*); Loch Leven Trout * (*Salmo levenensis*); Rainbow Trout * (*Salmo irideus*); Gold Carp * (*Carassius auratus*); Nine-spined Stickleback (*Gasterosteus pungitius*); Three-spined Stickleback (*Gasterosteus aculeatus*); Fresh-water Gudgeon * (*Gobio fluviatilis*); Tench * (*Tinca vulgaris*); Rudd * (*Leuciscus erythrophthalmus*); Ruffe * (*Acerina vulgaris*); Minnow (*Leuciscus phoxinus*); Dace * (*Leuciscus vulgaris*); Roach * (*Leuciscus rutilus*); Pike * (*Esox lucius*); Perch * (*Perca fluviatilis*); White Bream (*Abramis blicca*); Stone-Loach (*Nemacheilus barbatula*); Indian Serpent-head * (*Ophiocephalus punctatus*); North American Cat-fish * (*Amiurus catus*); Central American Fresh-water Fish * (*Heros facetus*); Electric Cat-fish * (*Malapterurus electricus*); Cat-fish * (*Clarias anguillaris*); African Mud-fish * (*Protopterus annectens*); Walking Fish * (*Periophthalmus koelreuteri*); the Calabar Polypter * (*Calamoichthys calabaricus*); Conger Eel (*Conger vulgaris*); Sea Snail (*Liparis montagui*); Young Ray (*Raia* sp.); Sand Lance (*Ammodytes lanceolatus*); Bullhead * (*Cottus scorpius*); Sole * (*Solea vulgaris*); Plaice * (*Pleuronectes platessa*); Lesser Weever (*Trachinus vipera*); Pogge * (*Agonus*

cataphractus); Common Frog * (*Rana temporaria*) and tadpoles; Common Toad * (*Bufo vulgaris*); Italian Toad * (*Bufo vulgaris*); Crested or Great Water-Newt * (*Triton cristatus*); Common or Smooth Newt * (*Molge vulgaris*); Spotted Salamander * (*Salamandra maculosa*); American Salamander * (*Amblystoma carolina*); Mexican Axolotl (*Axolotl tigrinum*); Menopoma * (*Cryptobranchus alleghaniensis*); Young Horned Viper (*Bitis nasicornis*); West African Crocodile * (*Mecistops cataphractus*); Egyptian Chameleon (*C. basiliscus*); Egyptian Skink * (*Scincus officinalis*); Wall Gecko * (*Tarentola annularis*); Spanish Ringed Snake (*Tropidonotus natrix*, var., *astreptophorus*); young African Python (*Python sebae*); Lesser Purple Gallinules (*Porphyriola alleni*) (transferred to J. Marsden Smedley, Matlock); young West African Crested Eagle (*Lophotriorchis lucani*); two young African Genet Cats * (*Genetta senegalensis*); West African Pouched Rat * (*Cricetomys gambianus*); Young Drill * (*Papio leucophæus*); Bosman's Potto (*Perodicticus potto*); White-collared Mangabey * (*Cercocebus collaris*); young Duikerbok from West Africa (transferred to J. Marsden Smedley, Matlock).

Important donations of West African specimens have been made from time to time to the Museum Aquarium, by Messrs. A. Ridyard, Forman, Stokes and others. Towards the end of the year additional warm-water tanks had to be fixed to accommodate a number of tropical fishes presented by Mr. Ridyard, all the available tanks being full. There are now seven different species of Tropical Fishes living in the Aquarium.

The attempt was successfully made in May last to induce one of the Mud-fishes (*Protopterus annectens*) to burrow into the mud and encase itself in a capsule, as it does in its natural habitat during the dry season. This was effected by gradually drawing off the water from the surface of the clay (some of the original clay in which specimens in the dried condition had been brought to England). It was hoped that observations might be taken of its method of burrowing, if it could be induced to make its hole near the glass wall of the tank. But this hope was not realised, and nothing was seen of the fish from the time it entered the mud in May to the time it was placed in water once more at the beginning of December. The mud was then, and had been for the greater part of the period, quite hard and dessicated. The fish seemed none the worse, and is now quite healthy in one of the tanks.

The experiment of hatching trout in the small fish-hatchery in the Aquarium, was this year very successful, fully 75 per cent of the young trout being reared. The older trout have increased very much in size, so much so, that it was found desirable, in December last, to thin them down, and with the sanction of the Parks and Gardens Committee about three dozen were transferred to the lake at Sefton Park.

Various exchanges (see page 12) have been effected with duplicates from the Aquarium tanks.

SUMMARY OF ACQUISITIONS.

Zoological.

Coelenterata	..	20	Species...	...	Numerous	Specimens.
Echinoderma	...	4	„ ...	..	8	„
Vermes	...	6	„ ...	...	14	„
Arthropoda (Crustacea)	4	„	...	...	40	„
Arthropoda (Tracheata)	130	„	+ many indet.	212	„	„
Mollusca	...	70	„	„	182	„
Fishes	...	25	„	...	170	„
Amphibians	...	1	„	...	2	„
Reptiles	...	18	„	...	24	„
Birds	...	173	„	...	287	„
Mammals	...	111	„	...	265	„
		562	„	+ many indet.	1,204	„

Botanical.

Plants	112	Species	...	227	Specimens.
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Geological and Mineralogical.

Rocks and Minerals	202+	Specimens.
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B.—MAYER MUSEUM.

(a) GENERAL.

No event of outstanding importance has occurred during the past year.

Dr. Pribsch has published in the '*Bulletin of Museums*,' Nos. 3-4, an account of two leaves of the Parcial of Wolfram von Eschenbach, found pasted on the backs of a German Psalter of the 12th century.

An interesting series of Ancient Egyptian Antiquities has been received from the Committee of the Egypt Exploration Fund, and the Egyptian Research Account.

Arrangements were made with Major-General H. G. Robley, of London, for the exhibition on loan of his rare collection of objects illustrative of the Art Work of the Maoris of New Zealand. Since its exhibition numerous visitors have specially visited the Museum to see it.

Again, we would record the generous assistance of Mr. A. Ridyard, Chief Engineer, S S. "Niger," in bringing home for this Museum several highly interesting and, in some cases, unique objects for the West African section of the Ethnographical Gallery; also, the assistance rendered in this direction through Mr. Ridyard, by Messrs A. Forman, G. W. Stokes, J. Newberry, S. Smith, H. L. Jones, J. E. Gibney, and F. R. C. Ludderoth on the coast, who have been ever ready to obtain for the collection special wants; and to Messrs. Elder, Dempster & Co., for kindly allowing goods to come freight free.

The collections illustrative of the Arts and Crafts of Primitive Races, as illustrated in the Ethnographical Gallery, has increased so rapidly during the past two years as to completely congest the present exhibition rooms. The question of allotting a more extensive suite of rooms for its proper exhibition will soon be necessary.

The West African section of the Ethnographical Gallery has increased so rapidly as to necessitate the allotment of additional space for its better exhibition. This has been provided by removing the Australian and part of the New Guinea exhibits from the East side of the gallery, and devoting the vacant space to West African. The whole of the East side of the gallery now contains West African exhibits. It is expected when the African Merchants of Liverpool co-operate in assisting to make the collection thoroughly representative of that great country, the present gallery will be too small to hold the exhibits illustrative of the arts and crafts of the native races of Africa alone. The Assistant Curator, Mr. P. Entwistle, has been constantly employed in labelling specimens, and adding to them explanatory drawings and photographs, which add greatly to the interest and value of the collection, as well as the preparation of the series of enlargements of the Races of Mankind, for the Anthropological Room and the British Museum, and the illustrations for the "*Bulletin of Museums.*"

Additions have been made to the various sections, as far as funds have permitted, and whenever an opportunity occurred.

(b) LOANS AND DEPOSITS.

The figure of Krishna, kindly lent by Mrs. E. Carter in 1893, has been acquired by purchase for the Museum Collection.

A Trepanned Human Skull (⁷⁴²⁰_M) found in Eastry Churchyard, Kent, has been lent to Professor Paterson, University College for examination.

(c) EXCHANGES.

The following specimens (10. 5. 98. 2-7) have been received from Mrs. John Crosby Brown, New York, in exchange for the duplicate specimens sent to her last year, as reported in the Annual Report, 1897:—Tambourine of skin, painted, Sioux Indians; Low Flute of wood, painted, American Indian; Single-stringed Violin and Bow, Sioux Indians; Cane Flute (imperfect), Brazils; Pans Pipes, Brazils; Photograph of an American Indian playing Violin; Figure of Christ.

(d) ACQUISITIONS.

(1.) —GENERAL.

Coins and Medals :—

Copper Coins (11. 10. 98. 34), Nepal, India; purchased.

(2) CERAMICS.

The following Wedgwood-ware Intaglios (29. 3. 98. 3-46), new to the collection, were presented by Alderman Wm. Bartlett:—No. 19, Head of Sabina; 55, Perseus; 67, Plato; 72, Neptune; 77, Aristophanes; 181, Constantine on Horseback; 102, Venus; 107, Apollo; 164, Bacchus sitting on a Tiger; 167, Temple of Venus; 168, Cupid; 202, Jupiter Olympus; 209, Iöle; 216, Birth of Bacchus; 217, Cow and Calf; 222, Papius and his Mother; 233, Ovid; 240, Alexander; 241, Minerva; 257, Bellerophon watering Pegasus; 266, Madonna; 273, Conquered Province; 276, Madonna; 289, Hygiea; 290, Diana of the Mountains; 291, George III.; 294, Theseus killing the Minotaur; 299, Venus Victrix; 300, Offering to Victory; 301, Diomedes or Perseus; 303, A Bull; 307, Nereides; 313, A Sacrifice; 321, Ceres instructing Triptolemus.

tolemus in Agriculture ; 322, Flora ; 330, Cybele giving Jupiter to be educated ; 335, A Sacrifice ; 336, Neptune ; 350, A piping Bacchus and Cupid ; 351, A Cupid with a Butterfly ; 396, Achilles : 327, Offering to Minerva ; 436, A Shepherdess.

Three lead-glazed Tygs (9. 8. 98. 75-77), very much broken, found respectively in St. Werburgh Street, and on the site of the old Feather Inn, Bridge St., Chester ; purchased.

(3) ETHNOGRAPHY.

PRE-HISTORIC :—

Two Stone Chairs (27. 9. 98. 1-2), found along with several others on a hill top at Manta, province of Manari, Iquique, Peru : presented by Mr. J. G. Nicholson.

The following Peruvian Specimens were purchased :—Piece of Woven Material (25. 1. 98. 169) ; Rude Bronze Castings of Spoons and Human Figures (25. 1. 98. 170-175).

Bronze Stop-ridge Celt (9. 8. 98. 74), found in Northgate Street, Chester ; purchased.

Three Flint Arrowheads (26. 4. 98. 4-6), found in Perthshire ; purchased.

Two Bronze Arrow-heads (26. 4. 98. 7-8), Metal Fibulæ (26. 4. 98. 9) ; Metal Figure (26. 4. 97. 10), dug up in Persia ; purchased.

Rudely-carved Human Figure in obsidian (27. 9. 98. 10), Mexican ; purchased.

Miscellaneous :—

Descriptive Catalogue of Engraved Gems, &c., by James Tassie, 2 vols., 1791 (29. 3. 98. 2) : presented by Alderman Wm. Bartlett.

Etching (19. 4. 98. 87) of Mr. Joseph Mayer in his Library, from the picture by Wm. Daniels : presented by Miss Dart.

ETHIOPIAN RACE.

Africa.—West and South-west Africa :—

List of specimens collected and presented by Mr. A. Ridyard, Chief Engineer, S.S. "Niger" (Elder, Dempster & Co.) :—

Charm (9. 8. 98. 5), St. Louis, Senegal.

Puzzle, Mandingo (19. 4. 98. 14).

From Sierra Leone :—Plaited Grass Hat (19. 4. 98. 5); Gourd Water Bottle (9. 8. 98. 6), Rotifunk.

From Liberia :—Plaited Grass Caps (19. 4. 98. 10-11), Saas Town ; Fife (18. 10. 98. 5), Cape Lopez.

From the Gold Coast :—Gourd Calabash (19. 4. 98. 6) ; Soup Ladle (19. 4. 98. 7) ; Drum (19. 4. 98. 8) ; Pair of Wooden Shoes (19. 4. 98. 9) ; Red Clay Pipe-head, in form of a tortoise (9. 8. 98. 3) ; Wooden Figure of an Executioner (9. 8. 98. 7), all from Accra. Wooden Figure of a Bird with a snake in its beak (9. 8. 98. 1), Quitta ; Whip made of fish intestines (18. 10. 98. 1), Quitta.

Dahomey :—Native Cloth (19. 4. 90. 12), Abomey.

Lagos :—Waistband (19. 4. 98. 27), worn as a protection against evil-disposed persons ; Black Powder, a native medicine (19. 4. 98. 28) ; *Tūrare*, a native medicine for curing fever, &c. (19. 4. 98. 31) ; *Agummu*, a native medicine for curing prickly heat, &c. (19. 4. 98. 32-33) ; Ground Potash used with medicine (19. 4. 98. 34) ; *Ipara*, an ointment used for dropsy (19. 4. 98. 35) ; *Afato*, a medicine (19. 4. 98. 37) ; *Arédan*, to reduce inflammation (19. 4. 98. 40) ; Carved wooden head of a Fetish figure, painted (9. 8. 98. 2) ; Whip of Elephant Hide (9. 8. 98. 8), Ibadan.

From Benin :—Fetish (19. 4. 98. 15), in form of two human heads with protuding horns, covered with human skin and painted.

From the Niger Coast Protectorate :—Wooden Fan (19. 4. 98. 13), Old Calabar.

Katsena, Houssa Country :—Alligator Pepper (19. 4. 98. 29) ; Beni Seed, used for making oil (19. 4. 98. 30) ; Jaro Seed, used in the preparation of *Foo Foo* (19. 4. 98. 36) ; Bitter Kola, for curing coughs (19. 4. 98. 38) ; *Bagaruah*, used for healing cuts, &c. (19. 4. 98. 39) ; Jeddo, used for seasoning soups (19. 4. 98. 41) ; *Egusi*, used in preparing palm oil chop (19. 4. 98. 42) ; Sour Seed, used as a cough mixture (19. 4. 98. 44) ; Potash, used for medicine and soup (19. 4. 98. 45) ; Locust, used in making soup (19. 4. 98. 46) ; *Gangama*, a sure cure for headache (19. 4. 98. 47) ; Blue Dye (19. 4. 98. 43) ; Knife (9. 8. 98. 21).

From the Cameroons :—Bululand. Cane Tooth Brush (19. 4. 98. 17) ; Knife (9. 8. 98. 24) ; Wooden Bracelet, worn by a member of the 'So' secret society in Bululand, taken from the Fetish Doctor when dancing a Fetish Dance (9. 8. 98. 25) ; Piece of bark used as a medicine

(9. 8. 98. 27); Forest Beans, used when gambling (9. 8. 98. 28); Tooth Ornament (19. 4. 98. 17); Basket (18. 10. 98. 18), Macombi.

Bali:—Pipe Head (9. 8. 98. 9), in form of a grotesque human figure; Earthenware Pipe Head (18. 10. 98. 4).

Rio del Rey:—Wooden Food Bowl and two Spoons, Wombocker (9. 8. 98. 23); War Cap of Parrot Feathers (9. 8. 98. 14); Two Wooden Figures (9. 8. 98. 15-16).

Bata:—Pipe Head (19. 4. 98. 24).

Batanga:—Wooden Spoon (19. 4. 98. 19); Wooden Female Figure (19. 4. 98. 20); Basket and Band (9. 8. 98. 17); Pipes (9. 8. 98. 18. 19); Shrimp Trap '*Eyawo*,' Kribi (9. 8. 98. 20); Walking Stick in form of an umbrella, Mabeye (9. 8. 98. 22).

From the Gaboon:—Gaming Board (9. 8. 98. 29); "*Zanze*" (9. 8. 98. 32); Musical Instrument, six strings (9. 8. 98. 33); Plaited Basket (9. 8. 98. 34); Musical Instrument (18. 10. 98. 2); Torch, used in the dance (18. 10. 98. 3).

Sette Kama:—Rudely-carved Female Figure, painted (19. 4. 98. 18).

M'pongwe Country:—Knife in Sheath, Lewé (9. 8. 98. 30); Two pieces of Iron Money (18. 10. 98. 16); Horn, Fetish (18. 10. 98. 17).

From the Congo Français:—Pipe (9. 8. 98. 35); Wooden Plate (9. 8. 98. 36); '*Palmatora*' (9. 8. 98. 37); Chiefs' Despatch Box (9. 8. 98. 38); Earthenware Water Bottle and Stopper (9. 8. 98. 39); Two Spears (9. 8. 98. 48-49), from Koungo, Mayumba; Casingo (9. 8. 98. 40), Mayumba; Fetish '*Biaú Esali*' (9. 8. 98. 26), worn on the thumb; Imitation Gun, Gourd Water Bottle, Cassada Cleaner, Model Canoe, Hair Comb, Wooden Figures, Dance Sticks, and Powder Flasks (18. 10. 98. 6-15), Dinda, Mayumba; Tobacco, and Carved Wooden Ball (18. 10. 98. 19-20), Koungo, Mayumba; Wood Rattle (18. 10. 98. 21), Mayumba; Mask (18. 10. 98. 23), N'Gove.

From the Portuguese Congo:—Animal Fetish, '*Ikoso*', Landana (9. 8. 98. 43).

From the Congo River:—Earthenware Water Cooler and Bowls (18. 10. 98. 24-27), Natadi; Two Earthenware Vessels (19. 4. 98. 22-23), from Boma.

From the Upper Congo:—Basket (19. 4. 98. 21), used for sieving cassava, from Kinbonbon, Falls of Inkisse; Hatchet, Mobangi (9. 8. 98. 41); War Knife, Basoko (9. 8. 98. 42).

Fernando Po.—Banni District:—Barbed Wood Spear (9. 8. 98. 50) ; Walking Stick (9. 8. 98. 51) ; Basket (9. 8. 98. 10) used for carrying palm oil ; Basket (9. 8. 98. 11) ; Armlet, of fibre (9. 8. 98. 12) ; Speaking Trumpet (9. 8. 98. 13).

Miscellaneous :—Necklace of Teeth and Glass Beads (19. 4. 98. 25) ; Carved Forest Beans (19. 4. 98. 26) ; Palm Nut Oil (19. 4. 98. 80) ; Honey (19. 4. 98. 81) ; Photographs (19. 4. 98. 74-79) of a Dutch Factory, Congo : Portuguese Station, Congo ; Bwende, Sette Kama : River Scene, N'Gove : Mongo Nyanga, Sette Kama : Hemaphrodite.

The following specimens from Rio del Rey, Cameroons, were collected and presented by Mr. A. Forman, Rio del Rey (19. 4. 98. 82-85 & 9. 8. 98. 44-47) ; *per* Mr. A. Ridyard :—

Leaves from which black dye is made for dyeing grass, also the black dye, and leaves for making red dye and the red dye ; Female Fetish Figure ; Wooden Mask ; Hat and Brass Armlet.

The following specimens from the Cameroons were collected and presented by Mr. S. Smith (19. 4. 98. 51-54) ; *per* Mr. A. Ridyard :—

Fetish Headdress of Wood ; Feather Cap ; Piece of Carved Wood, coiled snakes, &c. ; Headdress of Wood, in form of an ox-head painted, &c., used in the dance.

Collected and presented by Mr. W. G. Stokes, *per* Mr. A. Ridyard :—Brass Leglets (?) for males and females, from Temboni, Muni River, Eloby (19. 4. 98. 55-56).

Collected and presented by Mr. J. E. Gibney, Cameroons, *per* Mr. A. Ridyard :—Woven Grass Bag, dyed (19. 4. 98. 48) ; Black Earthenware Pipe-heads (19. 4. 98. 49-50).

The following Photographs have been presented by Mr. F. R. C. Lutterodt (19. 4. 98. 58-73 & 9. 8. 98. 52-72), *per* Mr. A. Ridyard :—King Bell and King Aqua, Cameroons ; King's Wife and Daughters, Cameroons ; King Bell's Daughters ; Fetish Play ; Whale Fetish ; Alligator and Leopard Fetish ; Group of Men Singing at a Funeral ; Canoe Making, Mungr River ; King Ja Ja's War Canoe, Opobo ; Lagos Women and Children ; King of Gaboon and his Wife ; M'pongwe Women ; Street, &c., Cameroons ; King Bomi of Edea, trading ; Big

Batanga Falls ; Street, Cape Coast ; Children at Labrine, Aburi, Accra ; Native Meeting at Addah ; Gold Mines, Axim ; Back View of Sanatorium, Aburi ; Native Meeting, Krippi, Gold Coast ; Agriculturists, São Thome ; Bridge, Basile Road, Santa Isabel, Fernando Po ; Bridge, Cribi, Batanga ; Gaboon Rivers ; River Kingeninge, Gaboon ; Main Street, Gaboon ; Cocoa Farm, Victoria ; Bay in Cocoa Farm ; Banks of the River Volta ; Residence in Pemini, Sahara Roads. and at Kpandon ; Mr. Dalrymple's Dwelling in the Great Desert.

Mandingo :—Pair of Leather Sandals (8. 2. 98. 9) : presented by Dr. Pechey.

Fantee :—Two Terra-cotta Figures—of a group of three—seated on a drum-shaped base (29. 3. 98. 1) ; presented by Mr. Morris P. Jones, J.P., Chairman of the Museum Sub-Committee.

Dahomey :—Brass Knife-shaped Implement (10. 5. 98. 1) ; Wooden Dish in form of a snail (27. 9. 98. 14) ; purchased.

From Benin City :—The following specimens of ivory and metal castings from Benin City have been acquired by purchase :—Carved ivory head of a staff (11. 1. 98. 1), representing a chief (?) on horseback ; Sacrificial Club (19. 4. 98. 1), with three protruding ends and two cup-like receptacles, length $20\frac{3}{4}$ inches ; Armlet (19. 4. 98. 2), ornamented with a series of human and animal faces ; Ivory Armlet (19. 4. 98. 3), carved with representation of four rude human figures holding knives, horse-shoes, &c., and leopards with deer in their mouths, &c. ; Aegis (19. 4. 98. 4), a mailed female figure, holding in her right hand a rectangular plaque (?), on the ground are two tree frogs ; Aegis (26. 4. 98. 1), with figures of cat fish, tree frogs, and human, buffalo, and elephant heads ; Casket (26. 4. 98. 2), in form of a house ; Head (27. 9. 98. 3), in wood, of human form, covered with human skin ; Hide Fan (27. 9. 98. 4), ornamented with shells, gourds (containing antimony), and mammal skulls ; Knife (27. 9. 98. 5) ; Fetish (?) (27. 9. 98. 6), a piece of wood with two manillæ attached ; Girdle Belt, of hide, covered with brass wire (27. 9. 98. 7) ; Small Gourd (27. 9. 98. 8), containing ash ; Metal Handle of a Sceptre or Staff of Office (27. 9. 98. 9), with three pairs of figures at intervals ; Bronze Tusk-holder (11. 10. 98. 7) ; Two-headed Mask, of wood, covered with human skin (18. 10. 98. 1).

From the Congo River :—Battle Axe (27. 9. 98. 13), with elaborate iron head ; purchased.

South Africa :—

Hide Shield (26. 4. 98. 3), Zulu ; presented by Mr. E. Cox.

The following specimens (9. 8. 98. 78-97), have been purchased :—
Woven Bag ; Girdle Dress ; Necklets ; Necklaces of pieces of wood and seeds ; Grass Basket ; Twenty Armlets of various forms and wires.

Photographs (26. 4. 98. 40-43) of Zulu Girls and Kaffir Huts ; purchased.

Melanesia.—Australia :—

Wooden Shield (8. 2. 98. 4) ; Boomerangs (8. 2. 98. 5-7) ; presented by Dr. Pechey.

A selection (18. 10. 98. 2-92) of objects from the neighbourhoods of the Yule and Sherlock Rivers, Nullagine, Kimberley, the table-land between the Sherlock and Fortescue Rivers, and the Desert of North-west Australia, were acquired by purchase, as follows :—

Shield ; *Mishra* or Spear Throwers ; Mourning Necklaces ; Bull Roarers ; Fire Sticks ; Sticks, &c., carried in the Corrobboree ; Necklaces of Burga beads, culladi gum, *teredo* shells, human hair, &c. ; Hair Ornaments ; Net ; Passport of the Gnalluma Tribe ; Nose Ornaments ; Wooden Water Vessel ; Trough for winnowing seeds ; Native Doctor's Instruments ; various Grasses, Seeds, and Gums, used for making food and beads ; Flint Knives ; Glass Spear Heads and Photographs.

British New Guinea :—

A collection of Ethnographical Objects (25. 1. 98. 1-167), from the South-east Coast, acquired by purchase, as follows :—

Taupota :—Part of the Prow of a Canoe ; Spatulas of various materials and forms ; Tortoise-shell Comb, Necklaces of shell discs and cassowary quills ; Baskets ; Axe and Adze, with stone heads and wooden handles ; Stone Tappa-beaters ; Grass Petticoats ; Lime Gourds ; Slings and Sling Stones ; Netted Bags, Shuttles and specimens of netting of various-sized mesh ; Tortoise-shell Earrings ; Shell Ladles.

Fergusson Island :—Stone Axe-heads ; Bamboo Pipes ; Betel-nut Pounders and Mortar ; Necklaces of Cowrie and other Shells ; Shell Nose Sticks ; Shell Armlets ; Leglet of Shells, *ovulum*.

Goodenough Island :—Pan's Pipes ; Grass Armlets ; Necklace of Ground Shells strung on grass string ; Adze, stone head and wooden handle.

Cape Vogel :—Tortoise-shell Earrings.

North-east Coast :—

Wagifia Island :—Tortoise-shell Armlets ; Shell Knives ; purchased.

Trobriand Islands :—Lime Gourds and Hair Combs ; purchased.

Two Grass Petticoats (28. 6. 98. 12-13) ; Group of Spears (24. 11. 98. 41-43) and Bundle of Arrows (24. 11. 98. 44) ; presented by Mr. Wm. Crosfield.

Club, stone head and wooden handle (14. 6. 98. 1) ; Star-shaped Stone-headed Club (14. 6. 98. 2) ; Stone-headed Club, divided into 66 facets (14. 6. 98. 3) ; Ten Spears (14. 6. 98. 4-14), various ; purchased.

Dutch New Guinea :—

Mansinam Island :—Wooden Harpoon Float in form of a bird (8. 2. 98. 1) ; Bamboo Musical Instrument (8. 2. 98. 2) ; Portable Charms (8. 2. 98. 3-4) ; Wooden Drum (19. 4. 98. 86) ; purchased.

Arfak Mountains :—Head Bands of Tappa Cloth, on which are sewn pieces of ground shells, taken from the bodies of dead warriors (8. 2. 98. 5-6) ; purchased.

Miscellaneous :—Pair of Blacksmith's Bellows (9. 8. 98. 98), Gebe ; purchased.

Shield (11. 10. 98. 1), very rare form, Aru Islands ; Wooden Shield (11. 10. 98. 2), Biak ; purchased.

New Britain :—

Stone Celt (8. 3. 98. 4) ; purchased.

New Caledonia :—

Adze (28. 6. 98. 50) with head of *tridacna gigas* ; purchased.

New Hebrides :—

Three Arrows (8. 2. 98. 10), presented by Dr. Pechy.

Dance Ornament (28. 6. 98. 14), made of pieces of wood, wrapped with grass and surmounted with fowls' feathers, from Api, presented by Mr. John Jennings.

String of circular pieces of Shells and Cassowary Quills (25. 1. 98. 168) ; Girdle Belt and Tassel of Feathers (28. 6. 98. 15. 33-35. 38-39. 52-53), Api ; Woven Grass Dresses, Espiritu Santo, Mallicollo and Ambrym ;

Stone Adze Head; Adze Head, made of the half of a *Terebra maculosa*, Mallicollo; Rattle of candle nuts worn on the leg, and Wooden Bow Guard, Mallicollo; Pig-Killer's Comb, Tubumalao, Espiritu Santo; Bamboo Combs, Aitchin; purchased.

Santa Marie Islands:—Head Scratcher (28. 6. 98. 54), purchased.

Santa Cruz:—The following specimens (28. 6, 98. 16-32. 37. 43-49 & 51) have been purchased:—

Two Wooden Clubs, painted, used in the ceremonial dances; Wooden Food Bowl, Graciosa Bay; Seven Shell Armlets, *Trocas niloticus*, worn on the left arm; Fishing Line; Two Tortoise-shell Earrings; Tortoise-shell Fish Hook and Stone Sinkers; Two Shell Scrapers, and two charms; Fruit Bag, *pelau*; Plaited Grass Bag, *efate*; Three Woven Grass Bags, used for holding *betel* nuts; Three Woven Grass Dresses; Armlet of Shells, *Nassa arcularia*, L., Tucopia I.; Piece of printed Tappa Cloth; Roll of Feather Money, Nitendi.

Torres Islands:—Woven Head Band, *nela*; Two Girdle Bands, *netu*.

Banks Islands:—Wooden Knife, for cutting puddings, Vanua Lava; Grass Bags.

Fiji Islands:—

Native model of a Double Canoe (8. 2. 98. 1); Wig of twisted human hair (8. 2. 98. 2); Wooden Club (8. 2. 98. 3); Club, *ula* (8. 2. 98. 8), presented by Dr. Pechey.

The following specimens (28. 6. 98. 1-11) were collected and presented by Mr. Wm. Crosfield:—

Six-legged Kava Bowl; Piece of Kava Root; Hibiscus Strainer for Kava; Coconut Cup, for drinking Kava; Piece of Sinnet; Orator's Fly Flap; Five pieces of Tappa Cloth, variously printed.

Polynesia.—New Zealand:—

The following specimens having been acquired by purchase:—

Carved Wooden Head, part of the jamb of a door (29. 3. 98. 47); Pieces of Carved Wood from Canoes (29. 3. 98. 48-49); Piece of Wood carved in form of a human hand and arm (29. 3. 98. 50); Three Wooden Figures (29. 3. 98. 51-53), two male and one female, with loose arms worked with strings, and used in dance at Parahaka; Jade Ear Ornament (29. 3. 98. 54); Ball, "*poi*," with string attached, used in the native dances (29. 3. 98. 55); Photographs (29. 3. 98. 56-58) of natives.

Hervey Islands :—Club (8. 3. 98. 8), formerly in the Zemsch Collection, from Rimetra ; purchased.

Samoa :—Twelve Fans (24. 11. 98. 29. 40), made of variously dyed pieces of rattan and tappa cloth ; presented by Mr. Wm. Crosfield.

Fan (8. 3. 98. 5) ; Spear, with barbed head (8. 3. 98. 7) ; Wooden Club, Fiji form (8. 3. 98. 6), from Tutuila ; purchased.

Tonga :—Cone-shaped Alabaster Pounder (8. 3. 98. 3) ; purchased.

Mikronesia.—Matty Island :—

Tortoise-shell Axe (8. 2. 98. 10) ; Spear, the head whitened and on either side of it a row of shark's teeth (8. 2. 98. 11) ; Wooden Club, painted (8. 2. 98. 12) ; Wooden Spear, painted (8. 2. 98. 13) ; Triple-headed Fish Spear (8. 2. 98. 14) ; Wooden Bowl (8. 3. 98. 1) ; Sixteen Barbed Wooden Spears (11. 10. 98. 5-6) ; purchased.

Gilbert Island :—Hat, made of palm leaves (8. 3. 98. 9), from Taputeuca ; purchased.

Marshall Island :—Spear (8. 3. 98. 10) ; purchased.

Anchorite Islands :—Grass Petticoat (8. 3. 98. 2) ; purchased.

MONGOLIAN RACE.

America.—South :—

Spindle and Whorl (27. 9. 98. 11), and Drill (27. 9. 98. 12) with obsidian bit, used for drilling turquoise ; purchased.

Large Painted Earthenware Water Vessel (15. 12. 98. 1), from the Ucayali, River Amazon ; presented by Captain J. H. Good, S.S. "Boliva."

North :—

Leather Gun Case, decorated with beads and porcupine quill work (11. 1. 98. 2), and a Netted Game Bag (11. 1. 98. 3), from the Dog Rib Indians, Mackenzie River ; also a Chief's Necklace, from the Blackfoot Indians (11. 1. 98. 4) ; purchased.

Madagascar :—

A Group of Objects (29. 3. 98. 63-67) from Madagascar has been acquired by purchase, as follows :—

Tanala :—Waterproof of Plaited Bark ; Hatchet ; Plate, *lovia* or *vilia*, made of the leaves of the travellers' tree.

Betsileo :—Guitar, *valitsa*, made of bamboo ; Woven Garment, *sarimbo* ; Spears (?) ; purchased.

Malay Achipelago.—Borneo :—

Wooden Shield (8. 2. 98. 8.) Dusun Dyaks ; Painted Wooden Shield (8. 2. 98. 9), Beadyon Dyaks.

Photographs (26. 4. 98. 34-39) of Natives of Kulu, a Dyak, Kling man, Battak Chief, and Malay Women ; purchased.

Poréka Flag (8. 2. 98. 7), Island of Lakor ; purchased.

Burmah :—

Photograph (26. 4. 98. 32) of Myo Thit Atwin Woon : purchased.

Tibet :—

The following specimens (11. 10. 98. 8-32), from Tibet, have been acquired by purchase :—

Wooden Block, from which are printed the "Luck Flags" ; Conch Shell Armlet ; 'Mani,' or Prayer Cylinder ; Cloth Prayer Flag, 8 feet 6 inches long ; "Luck Flags" ; Butter Lamp, or "Cho-Kong" ; Rosary, made of pieces of Lamas Skull ; Hair Ornament, mounted in turquoise ; Woman's Cloth Cap ; Pair of Women's Long Cloth Boots ; Woman's Garters ; Lamas Human Skull Cup ; Silver Ring and two Brass Rings, set with turquoise ; Copper Hautboy Pipe, "*Gye-ling*" ; pieces of 'Yak' Cheese ; Conch Shell Bead Rosary, "*Yung-theng*" ; Clay Votiva ; Human Thigh Bone Trumpet, "*Kang-Ling*" ; Lamas Pointed Cap ; Copper Holy-Water Pot, and Feather Sprinkler ; Dagger ; Neck Amulets, or Charms ; Brass Shrine, enclosing image ; Human Skull Drum

CAUCASIAN RACE.

Egypt :—

A selection of Egyptian Antiquities (11. 10. 98. 38-), from Denderah : presented by the Committee of the Egypt Exploration Fund.

Collection of Ancient Egyptian Pottery (11. 10. 98), excavated at Hieraconopolis ; presented by the Committee of the Egyptian Research Fund.

Palestine :—

Glass Bowl (29. 3. 98. 60), with beautiful iridescence, found at Nazareth ; Glass Chrismatory (29. 3. 98. 61), from Tiberias ; purchased.

Cyprus:—

Sartago, or Stew Pan (29. 3. 98. 59), in bronze, from Salaminia ; purchased.

India :—

The following Specimens (26. 4. 98. 11-22) from various localities in India, have been purchased :—

Vase of Copper, Cashmere ; Brass Vase, richly engraved, Benares ; Oval Brass Tray, with engraved pattern, enamelled, Moradabad ; Cruet Stand in form of a leaf, enamelled ; Pair of Lotus-shaped Cups of Copper, gilt and enamelled ; Brass Tray, with enamelled design ; Scent Bottles and Bowl of Soapstone, from Ladak ; Shield and Tray of Steel, inlaid with gold and silver, Koftgurry.

Photographs (26. 4. 98. 23-24. 27-29. 32-33) of Cashmerian Boatmen ; Parsee Woman ; Hindoo man ; A Borah Family ; Afghans ; Thakeries or Hill People.

Stone Figure of Krishna (9. 8. 98. 73), Mysore ; purchased.

Nepal :—

Photographs (26. 4. 98. 25-26) of Bhootia Men and Woman and Child, purchased ; Bamboo Comb (11. 10. 98. 33) ; Penknife (11. 10. 98. 35) ; Silver-mounted Sword (11. 10. 98. 36), and Milk Pail (11. 10. 98. 37), Lepcha.

Italy :—

Figure of S. Peter (8. 2. 98. 15), the body made up of tow(?), the head is of moulded pottery, and the feet and hands of carved wood, the whole figure is draped in red silk. These figures were made by Neapolitan artists for the representation of the Nativity at Christmastide ; purchased.

Sugar Basin, Stand, and Four Spoons, carved out of olive wood, with a penknife, by a Greek at Corfu, in 1857 ; presented by Dr. G. H. Rendall.

Holland :—

Brass Bowl, used for holding '*batter*' for cake making in the Dutch fairs (29. 3. 98. 62) ; purchased.

WALKER ART GALLERY.

THE Curator has much satisfaction in reporting that the Institution of which he has the honour of being the custodian, continues its career of artistic usefulness with undiminished activity and popularity. The Permanent Collection is yearly growing more and more important, and is regarded by many other towns as an incentive to similar endeavours. Architects who are interested in the erection of Art Galleries in other parts of the United Kingdom visit the building for the purpose of noting its proportions, and its arrangements for lighting, warming, and ventilation. Requests for permission to reproduce important works in the Collection by various Art Journals are becoming more numerous, and with a view to making these works more widely educational, these requests have been granted at nominal fees in acknowledgement of the Committee's rights.

The crowded condition of the pictures, from want of adequate wall space, still continues, and it is to be hoped that the Committee will in the near future see their way to an enlargement of the Gallery.

During the year the Gallery was open 347 days, excluding Sundays. The number of visitors was 400,683, or a daily average of 1,155. This total includes 66,004 visitors to the Autumn Exhibition, besides 14,862 pupils of schools of various denominations, who were admitted free. In addition, the total attendance on Sundays was 16,753, being an average of 493, the average of 1897 being 514.

PICTURES LENT.

The following Works have been loaned to Exhibitions, &c., as under :—

TITLE.	ARTIST.	LENT TO.
"The Five Saints," from Roscoe Collection.	Attributed to Gentile de Fabriano	Burlington Fine Arts Club, London.
"The Castle Rock"	H. Clarence Whaite, R.W.S.	Manchester Corporation.
"The Punishment of Luxury" .	G. Segantini	Aberdeen Artists' Society.
"Meadow Sweets"	David Murray, A.R.A.	} Warrington Corporation.
"Eventide"	H. Herkomer, R.A.	
"Meadow Sweets"	David Murray, A.R.A.	} Mid-Cheshire Exhibition of Fine Arts, Northwich.
"Eventide"	H. Herkomer, R.A. . .	
"Sponsa de Libano"	Sir E. Burne-Jones, Bart.	The New Gallery, London.

REPRODUCTIONS.

The following privileges for the reproduction of Works in the Permanent Collection have been granted during the year. In no case is the privilege granted an exclusive one, the Committee reserving to themselves the right to afford facilities to other applicants if necessary :—

APPLICANT.	PICTURE.	ARTIST.
Fred Miller	"Pelagia and Philammon"....	A. Hacker, A.R.A.
Cadbury, Jones & Co	"The Martyr of the Solway" ..	Sir J. E. Millais, Bt., P.R.A.
M. H. Spielmann	"Lorenzo and Isabella"	,,
T. R. Annan & Sons	"The Pool in the Wood"	Colin Hunter, A.R.A.
T. C. & E. C. Jack	"Maiwand—Saving the Guns" ..	R. Caton Woodville
Cassell & Co., Limited ..	"The Antechamber at White- hall"	E. M. Ward, R.A.
A. G. Temple	"The Triumph of the Innocents"	W. Holman Hunt.
M. H. Spielmann	"A Select Committee"	H. Stacy Marks, R.A.
J. S. Virtue & Co., Ltd. .	"Friday"	W. Dendy Sadler.
R. Naumann	"Ophelia"	Miss Henrietta Rae.
Magazine of Art	"Love's Baubles"	Byam Shaw.
Miss Eke Furst	"Dante's Dream"	D. G. Rossetti.
,,	"Lorenzo and Isabella"	Sir J. E. Millais, Bt., P.R.A.
,,	"The Triumph of the Innocents"	W. Holman Hunt.
Isbister & Co., Limited ..	"Elijah in the Wilderness" ..	Lord Leighton, P.R.A.
George Allen	"Dante's Dream"	D. G. Rossetti.
Cassell & Co., Limited ...	"Ruth and Naomi"	P. H. Calderon, R.A.
,, ,,	"Jephthah's Daughter"	Miss Jessie Macgregor.
,, ,,	"Elijah in the Wilderness" ...	Lord Leighton, P.R.A.
A. Trevor-Battye	"The Expulsion of Adam and Eve"	A. T. Nowell.
Cassell & Co., Limited	"Ruth and Naomi"	P. H. Calderon, R.A.

STUDENTS.

44 Students have been admitted during the year. The pictures chiefly selected by students for copying were—"A New Light in the Hareem"—"Friday"—"Ruth and Naomi"—"Dante and Beatrice"—"Saving the Guns"—"Love's Baubles"—"Meadow Sweets"—"And when did you last see your father?"—and "Lorenzo and Isabella."

ADDITIONS.

The undermentioned Works have been added to the Permanent Collection during the year:—

By Purchase from the Autumn Exhibition.—"The Road to Camelot," by G. H. Boughton, R.A.; "Youth and Age," by H. Windsor-Fry, R.B.A.; and "A Shaft of Light," by Edward G. Hobley.

By Donations.—"Alexander Von Humboldt," Marble Bust by R. Willig; bequeathed by Mr. A. H. Lemonius. "Jephthah and his Daughter," Marble Group, by Giovanni Fontana; presented by Mrs. Fontana. "The Pass of the Cateran," by John Smart, R.S.A.; bequeathed by Mr. Samuel Stitt, and "Sir John Bent," by Philip Westcott, R.A.; presented by Mr. R. John Frank.

THE SPRING EXHIBITION.

An Exhibition of Arts and Crafts was organised by the Committee, and opened by the Lord Mayor (the Rt. Hon. John Houlding) on Saturday, February 12th.

The Exhibition was very extensive and complete. It comprised a large contribution from South Kensington Museum, of examples of the Arts of India, in textiles, ceramics, wood-carving, metal-work, etc., which completely filled the Grosvenor Room. Mr. Purdon Clarke, the Director of South Kensington Museum, gave a most valuable and interesting lecture on Indian Art.

There was also an extensive collection of Decorative Art Objects, the productions of the pupils of the School of Art, and University College, the Liverpool School of Science, Technology, and Art, and the Board Schools.

Two rooms were occupied by the Liverpool Amateur Photographic Association, who contributed a most excellent and varied collection of the work of their members. The pictures were arranged by the Association.

A large room was also devoted to an Exhibition of the works of the Liverpool Architectural Society, which celebrated its jubilee by holding a banquet in the Gallery, on the 18th of April.

The Exhibition, as a whole, was regarded by competent judges to have been the finest display of Arts and Crafts ever got together in Liverpool. The Committee regret, however, that it did not receive that support from the public that its merits deserved.

THE AUTUMN EXHIBITION.

The Autumn Exhibition, both from the general quality of the works exhibited, and from the large attendance of the public, was again a pronounced success.

The very fine weather that prevailed during the months of September and October kept enormous numbers in the country or at the seaside, with the result that the attendance of visitors was somewhat less than in former years; the sales of pictures, however, were considerable, and much larger than any season for thirteen years.

A novel and successful feature of the Exhibition was the formation of a Sculpture Hall on the ground floor, and the exhibition of pictures and sculpture invited from the Paris Salons. The provision of a new refreshment pavilion, under the covered way, was found a great convenience, and was well patronised and highly appreciated by visitors.

Several Soirees were held during the season, at one of which a lecture was given, entitled "A Retrospect of Art," by Mr. William Stott, of Oldham, illustrated by pictures shown by the oxy-hydrogen lantern. This lecture was highly appreciated by a crowded audience.

AUTUMN EXHIBITION OF PICTURES.

	1898.				1897.			
		£	s.	d.		£	s.	d.
Number of Works of Art Exhibited	1,507				1,342			
Number of Pictures sold	188				176			
Amount of sales at catalogue prices						5,821	12	6
Season Tickets sold	2,505	453	6	6	3,198	584	1	0
Admissions at One Shilling.. ..	28,129	1,406	9	0	30,214	1,510	14	0
„ Sixpence	17,133	428	6	6	21,343	533	11	6
„ Threepence.....	18,328	229	2	0	20,691	258	12	9
Catalogues sold	19,605	490	19	8	21,968	553	4	3
Commission on sales		365	11	10		179	4	10
Miscellaneous Receipts		209	3	9		90	5	10
Total Receipts, exclusive of sales ..		3,217	8	3		3,530	9	4

ENTERTAINMENTS.

The rooms were used for the following social functions during the year:—

The Lord Mayor's reception on the occasion of the visit of the House Painters' Congress; a Soiree of the Liverpool Municipal Officers' Guild; and the Annual Banquet of the Liverpool Architectural Society, each of which was highly successful.

Year.	ADMISSIONS.			Season Tickets.	Catalogues Sold.	Commission on Pictures Sold.	Miscellaneous Receipts.			Total Receipts.			PICTURES SOLD.								
	Sixpence.						Threepence.	£	s.	d.	£	s.	d.	No.	£	s.	d.				
	£	s.	d.																		
1871	720	16	0	207	14	6	62	2	0	165	10	0	320	18	6	6	6,395	2	6		
1872	601	5	0	48	2	6	59	6	6	168	0	6	312	6	0	3	6,281	4	6		
1873	665	18	0	229	10	3	96	8	6	199	17	6	371	17	0	8	7,402	17	6		
1874	854	16	0	241	13	3	151	16	6	247	0	6	479	0	3	2	9,514	13	0		
1875	972	13	0	237	14	0	210	7	0	279	14	3	617	3	0	11	12,299	18	6		
1876	1,118	0	0	232	7	6	221	1	0	301	12	0	440	15	3	9	8,867	10	0		
1877	1,928	12	0	419	3	3	443	14	0	454	10	1	537	11	2	18	10,963	11	0		
1878	1,964	17	0	423	5	0	528	14	6	562	8	6	537	13	0	4	10,225	14	0		
1879	1,516	12	0	378	11	9	566	7	6	504	9	3	364	16	0	7	9,159	15	0		
1880	1,449	11	0	439	19	6	499	16	0	509	7	3	543	3	3	10	11,753	7	6		
1881	1,434	15	0	376	4	6	475	14	0	468	19	9	528	7	6	15	12,210	11	0		
1882	1,430	3	0	332	16	0	476	1	0	472	14	6	362	8	9	23	7,868	3	6		
1883	1,302	1	0	304	17	3	381	3	6	434	15	9	403	13	0	32	8,472	10	6		
1884	1,966	12	0	519	14	3	649	7	6	599	13	3	432	6	3	87	12,313	7	6		
1885	1,317	9	0	344	10	0	501	7	6	481	7	9	353	17	0	44	8,028	8	6		
1886	1,147	1	0	333	15	9	302	10	6	434	9	0	336	13	9	36	8,576	18	0		
1887	888	15	0	260	0	0	216	4	0	371	2	3	185	3	9	18	4,791	19	0		
1888	1,473	5	0	186	11	3	384	1	0	524	17	6	268	16	9	40	6,461	6	0		
1889	1,475	4	0	92	15	6	432	11	0	524	9	6	283	10	6	75	8,083	3	6		
1890	1,372	11	0	241	4	6	511	12	6	484	18	0	221	16	9	79	6,943	1	6		
1891	1,765	3	0	449	1	9	593	14	0	589	1	6	281	4	3	61	7,603	2	0		
1892	1,559	13	0	223	4	0	652	9	6	535	12	9	172	7	9	43	5,132	8	6		
1893	1,423	15	0	207	12	9	620	18	6	505	9	0	196	14	6	42	6,297	9	0		
1894	1,290	7	0	246	17	6	641	12	6	500	0	9	142	11	3	31	4,345	4	6		
1895	1,268	10	0	213	13	3	566	6	0	467	18	0	180	14	0	24	5,470	7	0		
1896	1,371	15	0	205	7	9	623	2	0	500	14	7	143	16	2	64	4,227	8	0		
1897	1,510	14	0	533	11	6	584	1	0	553	4	3	179	4	10	90	5,821	12	6		
1898	1,406	9	0	229	2	0	453	6	6	490	19	8	365	11	10	209	9,397	17	6		
Total	37,197	2	0	7,884	2	3	11,905	16	6	12,332	17	7	9,260	2	0	1,275	9	6	220,858	11	6

CHARLES DYAIL, CURATOR.

FORTY-SEVENTH

ANNUAL REPORT

OF THE COMMITTEE

OF THE

FREE PUBLIC MUSEUMS

OF THE

CITY OF LIVERPOOL,



FOR THE YEAR ENDING 31ST DECEMBER, 1899.

*(Reprint of the General Report and of the Museums' portion only of the
Report of the Committee of the Free Public Library, Museums,
and Walker Art Gallery.*



LIVERPOOL :

C. TINLING AND CO., PRINTING CONTRACTORS, 53, VICTORIA STREET.

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COMMITTEE AND OFFICERS

for the Year 1899-1900.

THE RIGHT HONOURABLE LOUIS SAMUEL COHEN, J.P., LORD MAYOR.

Committee :

ALDERMAN SIR WILLIAM B. FORWOOD, J.P., CHAIRMAN.

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WILLIAM EVANS, ESQ., J.P.,	ALDERMAN J. N. STOLTERFOHT,
COLONEL W. H. WALKER.	

Director of Museums :

HENRY O. FORBES, LL.D., F.R.G.S.

Assistant Curator of Derby Museum :

JOSEPH A. CLUBB, M.Sc.

Assistant Curator of Wapex Museum :

P. ENTWISTLE.

GENERAL REPORT.

The very able and complete reports furnished by the Chief Librarian, the Curator of the Art Gallery, and the Director of our Museums leave little to be said; but it may be convenient to summarise the distinctive features of our work, which stand out prominently as marking the advance of the Institutions under our care, and the increased value placed upon them by the community at large.

The past year was a period of great commercial prosperity and active employment for all classes, and therefore, as leisure time has been restricted, we have had a falling off in the number of the readers at our various Libraries; but it is gratifying to find that the decrease in our issues have been entirely in works of fiction, and that our issues of standard literature, works on science and technology, have been fully maintained. Our endeavour to bring our stores of special books within the knowledge of all have proved a great success, and our displays of works on art and on our local history, were greatly appreciated, and gave a stimulus to readers in these departments.

The need for further Libraries is pressing, and the Committee are glad to think that they will shortly be able to proceed with the erection of Libraries at the South end, at West Derby, and at Wavertree. They are also anxious to provide a Library for Kirkdale as soon as their finances will admit.

The work of our Museums is much hampered by the structural alterations rendered necessary by the new buildings, but we shall be amply compensated for our present inconveniences by the magnificent accommodation which will be afforded by the new galleries when completed. The area of our Museum will then be 64,000 feet. Our largest gallery will contain 20,000 feet (the largest gallery in the British Museum containing only 13,900 feet), and it will be possible to display far better than in any other Museum the various groups of the animal kingdom in their phylogenetic relations, and as nearly as possible, therefore, in their natural sequence. The Museum will thus be at once comprehensible to the general public, and vastly more instructive than it has hitherto been.

GENERAL REPORT.

The Committee have encouraged original research by our Museum Staff, and the Bulletin published quarterly has already taken its place among the leading scientific periodicals of the day.

The Sokotra Expedition yielded some 2,000 specimens, of which 100 species are new to science, and the whole are new to our collection. The action of the Committee in sending out this Expedition has been most warmly appreciated in scientific circles.

Our Art Gallery has been further enriched by the purchase of four important works from the Autumn Exhibition. It is difficult to bring home to the people of Liverpool the very magnificent Gallery of pictures they now possess. Our Curator, in his admirable report, directs attention to special pictures which mark our Gallery as one of great excellence, and the fact that our pictures are now valued at over £100,000 is another proof of the quality and extent of our collection. Unfortunately we are short of hanging space, and a further extension of the Galleries is much needed.

The Autumn Exhibition is now firmly established in the confidence of the artists, and in the appreciation of the public. The Committee have shewn great public spirit in making this Exhibition as beautiful and as attractive as possible, and they have been rewarded by great and increasing success. They ask for the support of the picture buying public of Liverpool, as the more pictures sold out of our Autumn Exhibition the greater the inducement to artists to exhibit; and certainly our Autumn collection is the finest display of art work of the year in the country, for not only do we ingather the best pictures from the Spring Exhibitions in London, but we have the advantage of securing the pictures painted during the Spring and Summer after the London Exhibitions are opened. We, therefore, have every opportunity of making our Autumn display widely representative.

WILLIAM B. FORWOOD.

CHAIRMAN.

THE MUSEUMS.

The Director of Museums furnishes the Forty-Seventh Annual Report upon the CONDUCT and PROGRESS of the Museums.

I.—GENERAL.

THE FREE PUBLIC MUSEUMS comprise :—

(A) the DERBY MUSEUM, of which the nucleus was the collections bequeathed in 1851 to the City, by the Thirteenth Earl of Derby. It contains the *British Collections*, and the general *Zoological*, *Geological*, *Mineralogical*, and *Botanical* Departments, besides which there is an *Aquarium*, containing both Fresh and Salt Water Animals.

(B) the MAYER MUSEUM, the larger part of which was collected and presented to the Corporation in 1867, by Joseph Mayer, Esq., F.S.A. These collections are specially rich in (a) *Egyptian*, *Babylonian*, and *Assyrian Antiquities*; (b) *Medieval European Ivories*, *Bronzes* and *Illuminated Manuscripts*; (c) the unrivalled *Brian-Faussett Anglo-Saxon Collection*; (d) the *Mather Miniatures*; and (e) the very important *Pottery Collections*, conspicuously rich in Wedgwood and Old Liverpool Wares. Associated with this Museum, as belonging more nearly to the subjects illustrated by it, though not forming to any large extent part of the Mayer Bequest, are (f) the *Ethnographical Collections*, chiefly of barbaric races.

The building, in which these collections are housed, was erected at the cost of the late Sir William Brown, in October, 1860.

The Exhibition Galleries are open free to the public, as under :—

During January, November, and December	...	from 10 to 4
„ February	... ..	„ 10 to 4-30
„ March and October	... ..	„ 10 to 5
„ April to September	... ..	„ 10 to 6

Also on Monday <i>Evenings</i> during January to	}	„ 7 to 10
March, and October to December		

The Museums are closed on Sundays and Fridays (except the Fridays of Whit-, Easter- and Christmas-Weeks) throughout the year, as well as on Christmas Day, and days of Public Fast and Thanksgiving.

The Museums were represented by the Director at the British Association, which met under the Presidency of Sir Michael Foster, F.R.S., at Dover, and also at the meeting of the Museums Association at Brighton, under the presidency of H. Willet, Esq., F.G.S.

Parts 1 and 2 of Volume II. of the *Bulletin of the Liverpool Museums* were issued on the 18th May and the 30th September respectively. Part 1 contains preliminary descriptions of the new species obtained by the Sokotran Expedition. (a) The new Birds are described by Mr. Ogilvie-Grant and the Director, (b) the new Reptiles by Mr. Boulenger, F.R.S., (c) the new Scorpions, Centipedes, and Millepedes by Mr. Pocock, (d) the new Butterflies by Mr. Ogilvie-Grant, and (e) the new Land Shells by Mr. Edgar Smith. A note on cast metal work from Benin and the Catalogue of the *Coraciæ* complete its contents. Part 2 contains descriptions of further new species from Sokotra (a) new Moths by Sir G. Hampson, Bart.; (b) new Spiders by Mr. Pocock; (c) new *Orthoptera* by Mr. Burr; and (d) new *Hemiptera* by Mr. Kirkaldy. In addition there is a note on three rare and not hitherto figured species of *Zosterops* in the Derby Collection by Mr. Robinson, illustrated by a coloured plate: a list of the birds of the Antarctic Regions by the Director; and the Catalogue of the *Charadriiformes* in the Derby Collection.

The 3rd and 4th numbers completing Volume II., will be issued as one part early in January.

The Science Cabinets have, after reorganisation, again been distributed to the different Elementary Schools in the City. Two of these Cabinets were sent to the English Education Exhibition held in December, at the Imperial Institute, South Kensington, London, and their educational value was greatly appreciated.

The applications for the series of Technical Appliances on loan from the Museum have been well maintained, especially lanterns

and lantern slides for lecture purposes, and which it is very desirable should be increased in number.

The most important event of the year was the return of the Expedition sent by the Corporation to Sokotra, which was successful in securing large collections of great scientific interest and value.

The expedition consisted of the Director of Museums; Mr. W. R. Ogilvie-Grant, of the Ornithological Department of the British Museum; and Mr. J. W. Cutmore, Taxidermist of the Derby Museum. It was aided by a contribution from the Government grant of the Royal Society, by a vote of money and of instruments from the Royal Geographical Society, and by a grant from the British Association made at its meeting in 1898 at Bristol.

The party left England on October 28th, 1898, and arrived in Aden on November 18th. The entire voyage out was utilised in making a collection of the minute organisms which abound in the sea by sieving the water through very fine silk nets attached to the discharge pipe of pumps, which, by the courtesy of the owners and the captain of the *Manora*, were allowed to work uninterruptedly day and night.

The members of the expedition, who on their arrival in Aden were immediately received by the Political Resident, Brigadier-General Creagh, V.C., were deeply disappointed to learn from him that, owing to political difficulties which had arisen between the Indian Government and the Sultan of Sokotra, it would be impossible for them to proceed to their destination. The Resident had, before their departure from England, cabled to the India Office in London that they should be advised to postpone their visit, but, through some unexplained cause, that information was not conveyed to them. Their arrival in Aden was, therefore, naturally a surprise to the Political Resident, who, in the fullest sympathy with the position in which they found themselves, the same day despatched an urgent message to the Indian Government, explaining the situation and urging some speedy arrangement of the difficulty which had arisen, so as to enable the expedition, if possible, to proceed to Sokotra.

It is impossible to express fully the grateful thanks of the Members of the Expedition to General Creagh for his personal hospitality and for his great kindness in doing everything possible to make the days of the enforced stay of the expedition in Aden of profit to it. The Government bungalow at Sheik Othman, some twelve miles north of Aden, was generously lent to the expedition by him, and later, through his recommendation, an invitation was received from the Sultan of Lahej, in South Arabia, for the expedition to visit his dominions. His Highness met the members of the party at his boundary, conveyed them to the capital, hospitably entertained them, and assisted them in every possible way during their stay.

The Expedition has to express its obligations to the military authorities in Aden in lending for this journey baggage and riding-camels from the garrison establishment, and also the attendance upon them as a guard of a native officer (jemadar) and one sowar. The helpful aid of the First Political Assistant, Captain Jacob, in all these arrangements must also be very cordially acknowledged. A most profitable stay could undoubtedly have been made at Lahej, which is a very little explored region, had the expedition been eventually prevented from visiting Sokotra. It had only, however, begun what was proving to be a very interesting collection when intimation was received from General Creagh that authority had been obtained from the Government of India for the expedition to proceed to its destination. A speedy return having therefore been made to Aden, where eight Somali servants were engaged to accompany it in various capacities, the expedition embarked on December 1st, 1898, with its stores and baggage, on board the Royal Indian Marine Steamer *Elphinstone*, which the Indian Government had very generously placed at its disposal to carry it to and from the island. Authority had also been obtained from General Creagh to break the voyage for several days at Abd-el-Kuri, an island lying between Sokotra and Cape Guardafui on the Eastern Horn of Africa. This islet had never before been scientifically examined; and during the short stay made there several species of plants and animals new to science were discovered, among them a new *Salsola*, a new *Convolvulus*, and a new species of *Euphorbia* (*Euphorbia abdelkuri*), belonging to a family of plants of which many singular forms occur

in Sokotra, the most remarkable botanical discovery of the expedition. The new species of birds, *Passer hemileucus* and *Motacilla forwoodi*, only slightly differentiated from species occurring both in Sokotra and Somaliland, indicate the comparatively recent separation of Abd-el-Kuri from the mainland. The geological structure of the island was found to present many points of similarity to that of Sokotra. It has suffered great denudation, however, for the limestone, which is of both Cretaceous and Tertiary age, has disappeared everywhere except on one or two summits. Volcanic rocks abound, and from the high peak—1,750 feet in height—overlooking the anchorage they resembled a number of papillæ rising from a desert of sand. The island has but few inhabitants, who are very poor and miserably housed. Some of them are fishers and divers for pearl-shells. Numerous chelonian carapaces strewn about near their huts indicated that the Hawk's-bill turtle was a common frequenter of their coasts. The most notable feature of the vegetation was the absence of those characteristic plants of Sokotra, the Dragon's blood (*Dracæna*), Myrrh (*Balsamodendron*), and Frankincense (*Boswellia*) trees, though Abd-el-Kuri lies nearer to the African coast than the main island. The Geological collections, therefore, show that the whole of it was submerged at a time when Sokotra was probably a land area. The poverty of the fauna and flora of the island is, therefore, in agreement with its geological history.

On December 6th the *Elphinstone* left Abd-el-Kuri, and on the 7th anchored off Hadibu, the capital of Sokotra. On the 8th the Director, accompanied by the commander of the *Elphinstone*, landed and was received by the Sultan, to whom he presented letters of recommendation from the Government, and readily received permission for the expedition to visit all parts of the island. The next day the party went ashore and camped in the mountain-girt plain in which Hadibu stands. A week was spent there investigating the northern slopes of the Haghier Mountains. On the 18th of the month the camp was moved to Dahamis, at an elevation of 1,500 feet, where all the European members of the Expedition were unfortunately very soon laid down by a pernicious form of malaria. On the 26th, however, it was decided to move to Kamahanu, a hill in the Garieh

Plains, where it was hoped a more salubrious camping-ground would be found. But the continued sickness of the party—among whom for several days there was not a single undischarged member—made it necessary, after a few days' trial of this camp, to seek a still higher altitude on the Haghier range. The tents were consequently struck on December 30th, and transported to Jena-agahan, where, notwithstanding that fever was still very prevalent and the expedition was practically deprived, during the greater part of the time of its stay there (owing to his serious illness), of the services of the taxidermist, many of the most interesting specimens in the collection were secured, the most notable perhaps being the beautiful wild ass, of which large herds roamed the plains below the camp. On January 15th the camp was moved a two days' journey to the high plateau of Homhil, which proved to be a most successful collecting station. The health of the expedition rapidly improved, the climate and scenery were invigorating, with an abundant flora and fauna. There were here obtained roots and seeds of the shrubby gentian (*Ericum caeruleum*), one of the most lovely species both in flower and foliage of a beautiful family, and of a fine broad-leaved amyrrillid (*Hamanthus grandifolius*),

On January 27th a move was made from Homhil to Adho Dimellus, in the heart of the Haghier Mountains, at about 4,000 feet above sea-level—one of the most salubrious and beautiful spots imaginable. There over a fortnight was spent with great profit to all departments of the collection. Numerous butterflies were captured, some of great rarity, such as *Papilio benetti*, of which only one broken specimen was previously known, as well as roots and seeds of some of the most remarkable of the plants of the island, whose Alpine flora bears all the marks of great antiquity. On February 18th the expedition had to make its way back to the plain of Hadibu to await the return of the *Elphinstone*, which on the 21st of the same month anchored off the town, and took on board the members of the expedition and the collections. The same evening the despatch-boat sailed for Abd-el-Kuri, where it was decided to supplement the collections already obtained there by a few days' further exploration. From Abd-el-Kuri the *Elphinstone* brought the expedition direct to Aden,

arriving there on the night of February 26th, 1899. The party left Aden on March 2nd, and sixteen days later arrived in London.

The results of the expedition may be summarised as follows:—Of mammals there are examples of one or two species of rat, of one species of civet cat, one species of bat, and a fine wild ass. Of birds there are some 300 specimens, 250 in skin and 50 in spirit, out of which seven species have been described by the Director and Mr. Grant as new to science. A large series of reptiles, described by Mr. Boulenger, was acquired, which contains one genus and eight species new to herpetology. Of the scorpions, millepedes, and spiders obtained, Mr. Pocock has described one new genus and seven new species in the former group, and one new genus and four new species in the latter. Of the land-shells (numbering several thousands), Mr. Edgar Smith has described eight species as new to his department of zoology. Of insects there are several thousands, and Mr. Ogilvie-Grant has described three new butterflies, one of them a very beautiful and large *Charaxes* (*C. velox*), while Sir George Hampson has diagnosed one new genus and fourteen new species of moths. Mr. Burr, who has examined the Orthoptera, describes two new genera and six new species; while Mr. Kirkaldy has described the whole of the species of Hemiptera as new to science. Lord Walsingham has found the whole of the *Microlepidoptera* to be new to science. Professor B. Balfour, F.R.S., of Edinburgh, reports that the plants, of which living specimens or ripe seeds, over 200 in number, have been brought home, are of great scientific interest. Their cultivation is being kindly undertaken by him in the Royal Botanical Gardens at Edinburgh. Five species are new to science, and eleven new to the botany of the Sokotran island cluster. Among the most interesting may be mentioned species of *Dorstenia*, *Adenium*, *Begonia*, *Crinum*, *Exacum*, *Ruellia*, *Dendrosicyos*, *Hemanthus*, *Helichrysum*, with *Punica protopunica* and *Dracæna cinnabari*.

The true Sokoteri of the mountains, the Mahri, were found to be a light-complexioned Mahomedan people only poorly civilised, living in caves or rude cyclopean huts, who possess but few utensils, implements, or ornaments, and almost no weapons. The ethnographical collections are consequently very small; still, there have

been brought back specimens of their pottery, of their primitive quernlike mills, of their basket-work, and of their weaving apparatus. The expedition has likewise brought back and deposited in the British Museum two large blocks of stone inscribed with an ancient script, which may perhaps throw some light on the language of the people who occupied the island in a past age, and of whose cyclopean remains interesting photographs have been obtained.

In addition to the biological collections—in which six new genera and sixty-seven new species have been already described—a number of geological specimens were brought together, which have been examined by Dr. Gregory, of the British Museum.

A daily meteorological register was kept, and trigonometrical and astronomical observations conducted by the Director. From the latter a new map of the island will be constructed.

The results of the expedition, in regard to the question of geographical distribution, add little to what the investigations of Balfour, Schweinfurth, and Riebeck have established; but several of the zoological species confirm the presence, indicated by the botany, of a South American element in the biology of the island; and as Professor Balfour reports, the botanical specimens further support the African—especially the Abyssinian and Somaliland—connection, strengthen the bonds with the opposite Asiatic mainland, and further illustrate most interestingly the remarkable East Indian relationship.

The full report on the results of the expedition, to be shortly published as a special volume, will contain a Narrative of the Expedition, and complete lists of the fauna and flora of the islands visited, with coloured figures of all the new species, with notes on their Geology and Anthropology.

II.—VISITORS.

During the year there has been a decrease in the number of visitors to the Museums compared with that of the previous year, as shown by the following table:—

				1898.		1899.
				(264 Days)		(262 Days)
Total Visitors in the Year	...	...	...	354,114	...	310,482
Weekly Average	...	...	...	6,809	...	5,970
Daily Average	...	...	...	1,341	...	1,185

The falling off in the aggregate attendance of visitors for the year is probably owing partly to the fine summer, and partly to the unavoidable closing of part of the Exhibition Galleries. Our daily average, notwithstanding, is slightly in excess of that of the British Museum (Natural History) for 1898.

The attendance of school children under the charge of teachers has been well maintained, upwards of 1,200 children and 60 teachers having availed themselves of the clause in the Education Code, whereby time devoted to instruction in Museums reckons as school attendance.

Persons desirous of employing the Museums for the purpose of research, reference or sketching, can obtain, by application to the Director, and on giving satisfactory references, tickets enabling them to enter on Fridays, when there are special facilities afforded them for study; a room is devoted to their accommodation, where particular objects of study may, with the approval of the Director, be brought for their convenience from the cases. Tickets were issued, as usual, during the year (chiefly) to Artists and Students of Natural History, Osteology and Dental Anatomy, who have made extensive use of the collections on the days the Museums were otherwise closed to the public.

The following, among others, have visited the Museums during the year for the purpose of inspecting the collections or other special object:—C. W. Andrews, British Museum; R. Meinertzhagen, Mottisfont, Hants; R. B. N. Walker, Gold Coast; Dr. Chalmers, Accra; Prof. Gonner, University College, Liverpool; G. W. Stokes, Ukaka, West Africa; W. L. H. Duckworth, Jesus College, Cambridge; Dr. Hutton; Major Ross, I.M.S., University College, Liverpool; Sidney F. Harmer, King's College, Cambridge; Dr. Wiglesworth, Rainhill; Dr. Phil. A. Haseloff; J. H. Holland, Old Calabar, West Africa; Dr. Scharff, Dublin Museum; Prof. Haddon, Dublin

University; Prof. Boyce, University College, Liverpool; W. E. Hoyle, M.A., Owens College, Manchester; St. George Littledale; W. L. Selater, Director of the South African Museum, Cape Town; Dr. Chute, King Williams Town, Cape Colony; Der Graf zu Erbach-Fürstenau; M. Salomon Reinach (Member of the Institute of France); E. Dunkinfield Jones; Dr. Durant.

III.—LECTURES.

Twenty-one Lectures were delivered by members of the Staff on Monday evenings in the Theatre of the Museums. They were illustrated by specimens from the Museums and by lantern slides. The total attendance at the Lectures was 2,470.

The following is a list of the subjects:—

A course of four lectures on “New Zealand and its Aborigines” was given by the Assistant Curator of the Mayer Museum, Mr. P. Entwistle, as follows:—

Jan. 9th.—“The Coming of the Maoris.”

Jan. 16th.—“Fortifications and Habitations.”

Jan. 23rd.—“Moko, or the Maori Art of Tattooing.” I.

Jan. 30th.—“Moko, or the Maori Art of Tattooing.” II.

and two on general subjects, as follows:—

Feb. 6th.—“Recent Additions to the Museum from N.W. Australia and Tibet.”

Feb. 13th.—“Loot from Benin.”

A course of three lectures on “The Fishes in the Museum Aquarium” was given by the Assistant Curator of the Derby Museum, Mr. Joseph A. Clubb, M.Sc., as follows:—

Feb. 20th.—“General Characteristics of Fishes.”

Feb. 27th.—“Electric Fishes.”

March 6th.—“The African Lung and Walking Fishes.”

A course of three lectures on “The Life-History of a Fern” was given by the Assistant in the Derby Museum, Mr. W. S. Laverock, M.A., B.Sc., as follows:—

March 13th.—“Spores and the part they play.”

March 20th.—“The Seedling Fern, and where it comes from.”

March 27th.—“The Adult, or spore-bearing Fern.”

A course of four lectures on “The Black Tribes of the Soudan” was given by the Assistant Curator of the Mayer Museum, Mr. P. Entwistle, as follows:—

Oct. 9th.—“Their Character and Distribution.”

Oct. 16th.—“Farmers of the White Nile.”

Oct. 23rd.—“The Metal-working tribes of the Soudan.”

Oct. 30th.—“The Zandah Cannibals.”

A course of five lectures on “Animal Functions: how they are performed” was given by the Assistant Curator of the Derby Museum, Mr. Joseph A. Clubb, M.Sc.:—

Nov. 6th.—“Man: a Machine.”

Nov. 13th.—“Breath and Breathing.” I.

Nov. 20th.—“Breath and Breathing.” II.

Nov. 27th.—“The Heart and the Blood.”

Dec. 4th.—“The Digestion of Food.”

A. DERBY MUSEUM.

THE ENTRANCE HALL AND GALLERIES.

(BRITISH COLLECTIONS.)

The work of filling up the blanks in our Collection, and the effective labelling of the specimens, have been continued. The Collections representing the local fauna have been much studied and consulted by local collectors, scholars and youths of both sexes interested in Natural History.

ZOOLOGICAL DEPARTMENT.

(a) GENERAL.

During the past year there has been no change in the number or duties of the Staff. The work of cataloguing has been continued, and during the year the *Coraciæ* and the *Charadriiformes* among the birds have been completed and published, while the Reptiles have been commenced, and some considerable progress made. The

acquisitions to the Museum during the year have been large, and much of the time of the Scientific Staff has been occupied in the identification and registration of these specimens.

Much temporary inconvenience has been caused to the public from the closing of several of the larger galleries necessitated by the removal of the exterior walls of the old building for the purpose of joining it on to the Extension in course of erection: and to the Scientific Staff by their having during the reconstruction to vacate the rooms in the basement which have so long inefficiently served for laboratories. When completed these dismal, badly lighted apartments, formerly the kitchen and rooms of the caretaker, which possess no single appliance for the conduct of scientific work, will, by the enlargement of the rooms, heightening of the windows, and the introduction of all the most modern fittings and appliances, at last and for the first time in the history of the institution, provide suitable accommodation and studies for the scientific officers.

The Sokotran collections have not yet all arrived at the Museum, as it has been necessary to retain all the specimens of the different groups intact in London until the specialists who have kindly undertaken their identification had completed their work. It has been impossible, therefore, to incorporate them in this year's Register. The whole of the collections will appear among the additions to the Museum in the next Annual Report.

The series of photographic enlargements illustrating the various races of mankind have been still further added to. Copies have, as in previous years, been presented to the British Museum, and a series is being supplied to Cambridge University: while requests have been received from other Museums for copies in exchange. These anthropological photographs (inaugurated and first exhibited in England in this Museum) early attracted the commendation of so distinguished an anthropologist as the late Sir William Flower; and since then the collection has been visited by many anthropologists from Europe and America, who have expressed their appreciation of its great value.

(b) ARRANGEMENT.

The same general arrangement of the collections has been maintained throughout the year, and in view of the Extension, when much change and re-arrangement will be involved, little can be done beyond keeping the collections, as at present exhibited, in proper order.

(c) CONSERVATION.

All the collections on exhibition have been periodically examined, dusted and kept free from moth or other pest. The store cabinets and tanks, containing specimens preserved in fluid, have also been systematically gone over for the purpose of renewing the spirit or other preservative. The store cabinets of dried specimens also require constant attention, insects especially being liable to deterioration.

The work of reducing the duplicate specimens of mounted birds and forming cabinet skins of them for the study collection has been continued.

(d) LOANS.

Skull with horns and two skins of the Derbian Eland (*Oreas derbianus*) were lent to Dr. P. L. Selater.

Specimens of *Palæornis derbianus*, *Myzomela* spp. *Zosterops semperi*, and *Z. rendowæ* were lent to the Tring Museum, Herts.

Species of *Myzomela* and *Aplonis* were lent to Dr. R. Bowdler Sharpe, British Museum.

Living specimens of Electric-fish (*Malapterurus electricus*) and the Walking Fish (*Periophthalmus koelreuteri*) were lent to Professor Hickson, Manchester.

Six specimens of Mormyridæ were lent to G. A. Boulenger, F.R.S., British Museum.

(e) PRESENTS.

Perhaps the most important donation of the year is the share of the "Challenger Expedition" duplicates, received from the Trustees

of the British Museum. The collection contains upwards of 1,500 specimens, representing over 500 species, many of which are of great interest and importance.

Another valuable gift is a collection of British Birds, made by R. Meinertzhagen, Esq., of Mottisfont, Hants. This collection contains a large series of Tits and Linnets and has greatly enriched our British Bird collection.

Messrs. Barnum & Bailey have again very kindly sent us, during the year, several animals of great value which have died in their Menagerie, among which may be specially mentioned a Polar Bear and a large female Chimpanzee.

Mr. A. Ridyard, of the S.S. "Niger," still continues his most generous efforts on behalf of the Museum, and we have again to record a number of West African species among our acquisitions.

(f) EXCHANGES.

Skins and skulls of Gibbon (*Hylobates mülleri*, Martin) ♂ and Proboscis Monkey (*Nasalis larvatus* (Wurmb.)) ♀ were received in exchange from Mr. W. L. H. Duckworth, Cambridge, for carcase of young Gorilla.

Living specimens of the Paradise Fish (*Polycanthus viridi-auratus*, Lacep.), and the Central American Fish (*Heros facetus*), were received from Captain Vipan, Wansford, in exchange for living Electric Cat-fish (*Malapterurus electricus*, Linn.)

Skin of the New Zealand Owl (*Sceloglaux albifacies*, Gray), sent to Mr. Fleming, Toronto, in exchange for Cory's Least Bittern (*Ardetta neoxena*) ♀.

Two specimens of *Chlorocharis squamiceps*, Hart., ♀, from S. Celebes, and *Zosterops aignani*, Hart., ♀, from the Louisiade Archipelago, received in exchange from Mr. H. C. Robinson for two specimens of *Zosterops abyssinica*, Heugl., and two of *Z. madagascariensis* (Gm.)

One specimen of *Jacana nigra* (Gm.), received from Mr. H. C. Robinson for a subsequent exchange.

Skin with skull of Gibbon (*Hylobates mülleri*, Martin), ♀, received from Mr. W. L. H. Duckworth for a subsequent exchange.

Two Electric Cat-fish (*Malapterurus electricus*, Linn.) living, were sent to Professor Gotch, Oxford, for exhibition at the Royal Institution in illustration of his lecture and for subsequent laboratory experimentation.

One dozen Walking-fish (*Periophthalmus koelreuteri*, Pall.) living, were sent to the Zoological Gardens, London.

One Mud-fish (*Protopterus annectens*, Owen), one Electric Cat-fish (*Malapterurus electricus*, Linn.), and six Walking-fish (*Periophthalmus koelreuteri*, Pall.) living, were sent to Zoological Gardens, Dublin.

Five Bird Skins (*Ptilinopus roseicapillus* (Less.), 2 ♂; *Halcyon cinnamominus*, Swains, ♂ and ♀; and *Phlogoenas zanthonura* (Temm.) ♀, imm.), from Marianne Island, received for a subsequent exchange from the Tring Museum.

(g) ACQUISITIONS.

INVERTEBRATES—

Protozoa.

Foraminifera (*Carpenteria monticularis*, Carter) (D. 28. 8. 99. 1); ex "Challenger" collection, presented by the Trustees of the British Museum.

Porifera (Sponges).

Cup Sponge (*Raphiophora patella*) (D. 24. 7. 99. 1.); presented by Messrs. Harley and Miller.

Eleven species of Sponges (D. 28. 8. 99. 2-12); ex "Challenger" collection, presented by the Trustees of the British Museum.

Coelenterata. (Zoophytes, Sea Anemones, etc.).

Sertularia pumila, Linn.; *Obelia gelatinosa*, Pall.; *Tubularia indivisa*, Linn.; *Garreia nutans*, T.S.W. (D. 24. 4. 99. 71-74); collected at Hilbre Island by members of the Staff.

Coral from West Bay, Fernando Po (D. 26. 6. 99. 2); Gorgonid (sp. indet.) from S. W. Africa (D. 26. 6. 99. 3.); presented by Mr. A. Ridyard.

A number of Sea Anemones (*Actinia equina*, Linn.; and *Urticina crassicornis*, Mull.) from Scarborough (D. 24. 8. 99. 1 & 2): presented living by Mr. W. Hibbert.

Twenty-three species of Coelenterata, representing both Hydrozoa and Actinozoa (D. 28. 8. 99. 13-35); *ex* "Challenger" collection, presented by the Trustees of the British Museum.

Collection of Dried Corals (D. 27. 11. 99. 15); presented by the Trustees of the late Nathaniel Caine.

Echinoderma. (Starfishes, etc.).

Star-fish (*sp. indet.*) from S. America (D. 27. 7. 99. 11); presented by Mr. W. Swan.

Collection of upwards of one hundred species of Echinoderms, representing Echinoidea, Ophiuroidea, Crinoidea, Asteroidea, and Holothuroidea (D. 28. 8. 99. 36-143); *ex* "Challenger" collection, presented by the Trustees of the British Museum.

Vermes. (Worms, etc.)

Two Nereid Worms (D. 24. 4. 99. 76): collected at Hilbre Island by members of the Staff.

Sea-mouse (*Aphrodite aculeata*, Linn.) (D. 13. 5. 99. 1): died in Aquarium.

Collection of thirty species of Marine Worms, principally Annelids and Gephyreans (D. 28. 8. 99. 144-174); twenty-four microscopic slides of species of Polyzoa (D. 28. 8. 99. 400-424); and ten species of Brachiopods (D. 28. 8. 99. 425-434); *ex* "Challenger" collection, presented by the Trustees of the British Museum.

Arthropoda.

Crustacea (Crabs, Lobsters, etc.)

A Spiny Spider Crab (*Maia squinado*, Rondel), from the Bay of Biscay (D. 14. 6. 99. 3); presented by Capt. W. Eagle, *per* Messrs. Duncan & Sons.

Hermit Crab (*sp. indet.*) from Fernando Po. West Africa (D. 26. 6. 99. 6); presented by Mr. A. Ridyard.

Prawn (*Palaeomonetes varians*), from Wallasey Marsh, Cheshire, (D. 27. 7. 99. 16); from Aquarium Tank.

Collection of twenty-five species of Crustacea, containing representatives of the Cirripedia and Decapoda (D. 28. 8. 99. 175-199); *ex*

"Challenger" collection, presented by the Trustees of the British Museum.

Macrourous Crustacean (*Callianassa turnerana*, A. White) (D. 27. 11. 99. 8); presented by Mr. S. Smith, per Mr. A. Ridyard.

Tracheata. (Insects, Spiders, etc.).

Collection of Insects (*Acridium peregrinum*, Oliv.; *Mantis*, sp.; *Hetrodes spinosa*, etc.); Spiders, Scorpion, etc., from the Gaboon District, West Africa (D. 9. 3. 99.1-16); Hornet's Nest and various other Insects and Spiders (*spp. indet.*) from Fernando Po and Cameroons (D. 26. 6. 99. 1 & 4-7); and a Scorpion (*sp. indet.*) from Boma (D. 27. 11. 99. 1); presented by Mr. A. Ridyard, chief engineer, S.S. "Niger."

Large Larvæ of Beetles from Abouri, W. Africa (D. 9. 3. 99. 17); presented by Dr. A. J. Chalmers.

Pupal stage of Cockroach found in boxes from West Africa (D. 15. 3. 99. 1).

Collection of Insects (*spp. indet.*) from Venezuela (D. 24. 7. 99. 2); presented by Mr. J. Crum.

Collections of Insects, Spiders, etc., including a number of Wood-boring Beetles (*spp. indet.*) found in American timber (D. 27. 7. 99. 1-15) (D. 28. 8. 99. 464-477) (D. 26. 9. 99. 21-25) (D. 10. 10. 99. 2-4) (D. 27. 11. 99. 9-14) (D. 13. 12. 99. 2 & 3); presented by Mr. Wm. Swan.

Water Scorpion (*Belostoma heldemanum*, L. ?) from North America (D. 9. 5. 99. 1); presented by Councillor Hyslop Maxwell, Jun.

Puss Moth (*Cerura vinula*, Linn.) caught at Bootle (D. 14. 6. 99. 1); presented by Mr. Holmes.

Nest of Leaf-cutting Bee (D. 14. 6. 99. 2.); presented by Mr. E. S. Squire.

Two specimens of a species of Dipteron (*sp. indet.*) taken from bottle containing specimens of the Australian Bird *Philemon buceroides*, Swains. (D. 28. 8. 99. 200); ex "Challenger" collection, presented by the Trustees of the British Museum.

Centipede (*sp. indet.*) found in hold of S.S. "Parensé," trading with Para, Brazil (D. 28. 8. 99. 460); purchased.

Scorpion and Centipede (*spp. indet.*), from Virgin Islands, British West Indies (D. 28. 8. 99. 461 and 462); presented by Mr. Leonard Reade.

Saw-fly (*Sirex gigas*, L.) (D. 28. 8. 99. 463); presented by Rev. T. S. Lea.

Collection of Moths from China and Thibet, representing about twenty-four species (*indet.*) (D. 28. 8. 99. 478): presented by Mr. H. E. Hobson.

Collection of Australian Beetles, representing about twenty species, including *Calodema kirbyi*, Hope; *Schizorhina gymnopleura* (Macleay); *Lomaptera australis*? Wallace; *Rosenbergia megacephala*, Pollen; *Tragoceros spencei*, Hope and *Cladognathus limbatus*, Waterhouse (D. 26. 9. 99. 1-20); purchased.

Weevil Beetle (*sp. indet.*) found on an Orchid (D. 26. 9. 99. 26) presented by Mr. A. Heywood.

Stick Insect, Beetle, Spider (*spp. indet.*) and four Rock Scorpions (*Buthus afer*, L.) from Cameroon, West Africa (D. 27. 11. 99. 4-7) presented by Mr. S. Smith, *per* Mr. A. Ridyard.

Locust (*sp. indet.*) from Spain (D. 13. 12. 99. 1); presented by Mr. R. Coupland.

Wasp's Nest (D. 8. 2. 99. 1); presented by Mr. Geo. Smith.

A collection of Insects (principally Lepidoptera) from North Australia consisting of 150 specimens and about 100 species (D. 31. 12. 99. 1-100); purchased.

A Beetle (*sp. indet.*) (D. 15. 12. 99. 1).

Mollusca. (Shells, etc.).

Collection of shells from the Loyalty Islands, consisting of about 150 specimens and 71 species (D. 24. 4. 99. 1-71); presented by Mr. W. Crosfield.

Sea Slug (*Coryphella rufibranchialis*, Johnst.) from Hilbre Island (D. 24. 4. 99. 75); collected by members of the Staff.

Cast of Fossil Shell (*Isocardia* sp.) from a quarry, Salisbury Hill, Bath (D. 1. 6. 99. 1); presented by Mr. A. Hickman.

Collection of Shells, containing upwards of 1,000 specimens and about 200 species, representing most of the divisions of the Mollusca (D. 28. 8. 99. 201-399); *ex* "Challenger" collection, presented by the Trustees of the British Museum.

Cuttle-fish (*Eledone cirrhosus*, Lam.) found on New Brighton shore (D. 10. 10. 99. 1); presented by Mr. J. Veitch.

Two Land Shells (*Achatina reticulata*, Pfeiff) from Accra, Gold Coast (D. 27. 11. 99. 3); presented by Dr. J. Edward Mettelle, *per* Mr. A. Ridyard.

Land Slug (*Limax* sp.) (D. 10. 10. 99. 2); presented by Mr. Wm. Swan.

CHORDATES.

Tunicates.

A collection of Simple and Compound Ascidians containing 17 species (D. 28. 8. 99. 435-451); *ex* "Challenger" collection, presented by the Trustees of the British Museum.

Fishes.

English Trout from Tasmanian water (C. 13. 1. 99. 1); presented by the Tasmanian Government.

Gudgeon (*Gobio fluviatilis*, Flem.) from Aintree (C. 25. 2. 99. 1); died in aquarium.

Three blocks containing Mud-fish (*Protopterus annectens*, Owen) from Bathurst, West Africa (C. 20. 5. 99. 1); presented by Mr. Dougan.

Garfish (*Belone vulgaris*, Flem.) found in Ship Canal, Eastham (C. 4. 5. 99. 1); presented by Mr. F. B. Greenwood.

Central American Fish (*Heros facetus*) and a number of Paradise Fish (*Polyacanthus viridi-auratus*, Lacep.) (C. 22. 5. 99. 1 & 2); received in exchange. (See page 16).

A number of Walking-fish (*Periophthalmus koelreuteri*, Pall.) from Sette Cama, West Africa (C. 16. 6. 99. 1); Globe Fish (*sp. undet.*) from Bata, West Africa. and rostra of Saw Fish (*Pristis* sp.) from Futa, West Africa (C. 28. 7. 99. 1 & 2); presented by Mr. A. Ridyard.

Pipe-fish (*sp. indet.*) from North Atlantic Ocean (C. 30. 7. 99. 1); presented by Capt. G. Scott.

Seven Pike (*Esox lucius*, Linn.) from Heswall, Cheshire (C. 30. 7. 99. 2); presented by Mr. D. Brown.

Collection of Fishes consisting of 119 specimens and 74 species (C. 28. 8. 99. 1-74); *ex* "Challenger" collection, presented by the Trustees of the British Museum.

Two Cat-fishes (*Clarias* sp.) from River Densu, Accra (C. 27. 11. 99. 1); presented by Dr. J. Edward Mettle *per* Mr. A. Ridyard.

Eel (*Muraena* sp.) caught in Corisco Bay (C. 27. 11. 99. 2); presented by Mr. W. G. Stokes *per* Mr. A. Ridyard.

Electric Cat-fish *Malapterurus electricus*, Linn.); two Calabar Polyteri (*Calamoichthys calabaricus*, Smith); and a Gar Pike (*Belone* sp.) from Cameroons (C. 27. 11. 99. 3-5); presented by Mr. S. Smith *per* Mr. A. Ridyard.

Seven specimens of Marine Fishes (*spp. indet.*) from Cameroon (C. 27. 11. 99. 6-9); presented by Mr. A. Ridyard.

An Electric Cat-fish (*Malapterurus electricus*, Linn.); and 16 Walking-fish (*Periophthalmus koelreuteri*, Pall.) from Rio del Rey, West Africa (C. 27. 11. 99. 10 & 11); presented by Mr. F. Cohn *per* Mr. A. Ridyard.

Roach (*Leuciscus rutilus*, Linn.) from Aintree (C. 11. 6. 99. 2); three-spined Stickleback (*Gasterosteus aculeatus*, Linn.) (C. 27. 7. 99. 1); and a Pike (*Esox lucius*, Linn.) (C. 14. 7. 99. 1); died in aquarium.

Amphibians.

Natterjack Toad (*Bufo calamita*, Lawr.) from Wallasey (C. 29. 7. 99. 1); presented by Mr. F. Jefferies.

Two Menopomas (*Cryptobranchus alleghaniensis* (Daud.)) lived in aquarium for about 11 years (C. 14. 9. 99. 1); died in aquarium.

American Salamander (*Amblystoma mexicanum*, Cope) (C. 16. 10. 99. 1); died in aquarium.

Tadpole of Edible Frog (*Rana esculenta*, Linn.) (C. 27. 10. 99. 1); presented by Mr. Avann.

A Cæcilian (*Urotychilus africanus*, Günth.) from Cameroons, West Africa (C. 27. 11. 99. 12); presented by Mr. S. Smith *per* Mr. A. Ridyard.

Reptiles.

Two Sternotheres (*Sternotherus adansonii*, Dum.) from Ambrizette, West Africa; two Chameleons (*Chameleon cristatus*, Gray; and *Rhampholeon spectrum*, Günth.) from the Gaboon District, West Africa (B. 9. 3. 99. 2-4); presented by Mr. A. Ridyard.

A Snake (*Cælopeltis monspessulana* (Herman)) from the banks of the Nile (B. 24. 2. 99. 1); presented by Mr. Hardwick, B.Sc.

Five Snakes, including specimens of *Erthyrolamprus aesculapii*, Dum. and Bib., from Brazil (B. 24. 4. 99. 2-6); presented by Mr. E. Marwood.

Giant Tortoise (*Testudo pardalis*, Bell), from South Africa (B. 15. 5. 99. 1); purchased.

Common Viper (*Pelias berus*, Linn.), ♀, from near Lynmouth, Devonshire (B. 26. 6. 99. 1); collected and presented by Councillor Morris P. Jones, J.P., Chairman of the Museums Sub-Committee.

Alligator Terrapin (*Chelydra serpentina* (Linn.)), from New Orleans (B. 26. 6. 99. 2); presented by Mr. E. Broadbent.

A Tortoise (*Testudo calcarata*, Schneid.), from Mossamedes, West Africa; two snakes (*Calabaria reinhardti* (Schleg.)), and (*sp. indet.*); and Lizard (*Varanus niloticus*, D. and B., juv.), from Fernando Po, West Africa (B. 24. 7. 99. 2 and 4-6); presented by Mr. A. Ridyard.

Horned Lizard (*Phrynosoma coronatum* (Blainv.)), from Venezuela (B. 24. 7. 99. 7); presented by Mr. J. Crum.

A Lizard (*Tropidurus torquatus* (Wied.)), found in hold of s.s. "Pareense," trading with Para, Brazil (B. 28. 8. 99. 156); purchased.

Ringed Snake (*Tropidonotus natrix* (Linn.)), from Gresford (B. 28. 8. 99. 157); presented by Mr. Kenyon.

Lizard (*Anolis cristatellus*, D. and B.), from Virgin Islands, British West Indies (B. 28. 8. 99. 158); presented by Mr. Leonard Reade.

Four Chameleons (*Chamæleon basiliscus*, Cope), from Egypt (B. 10. 10. 99. 38); presented by Mr. E. Mors.

Nose-horned Viper (*Bitis nasicornus*, Bütt.), and another snake (*sp. indet.*), from Cameroon, West Africa (B. 27. 11. 99. 3 and 4); presented by Mr. A. Ridyard.

A Lizard (*Varanus niloticus*, D. and B., juv.); a young crocodile and nine snakes (*spp. indet.*), from Cameroon, West Africa (B. 27. 11. 99. 5-13); presented by Mr. S. Smith, *per* Mr. A. Ridyard.

Snake (*sp. indet.*), from Savannah (B. 13. 12. 99. 32); presented by Messrs. W. Nelson & Son.

Python Skin, from Sumatra (B. 27. 11. 99. 14); presented by Mr. W. Barclay.

Egg of land Tortoise, from Tower Island, Galapagos Group (B. 28. 8. 99. 155); purchased.

Birds.

The species indicated by an asterisk are new to the Collection.

Robin (*Erithacus rubecula* (Linn.)), from Rock Ferry (B. 8. 2. 99. 1); presented by Mr. R. Adam.

Purple Sandpiper (*Tringa striata*, Naum.), from the Crosby Shore (B. 9. 3. 99. 1); presented by Mr. J. J. Richardson.

Long-tailed Goatsucker (*Scotornis climacurus* (Vieill.)), taken south of Cape Verde (B. 9. 3. 99. 5); and young Lucan's Crested Eagle (*Lophotriorchis lucani*) from Mayumba, West Africa (B. 27. 11. 99. 2); presented by Mr. A. Ridyard.

Collection of British Birds, consisting of 380 specimens, representing 140 species, and containing a large series of Tits, Linnets, and Ducks, together with a specimen of the rare British bird, *Ciconia nigra* (Linn.), shot at Northolt, Harrow (B. 23. 2. 99. 1-140); presented by R. Meinertzhagen, Esq., Mottisfont, Hants.

Four Partridges (*Perdix daurica* (Pall.)), 2 ♂ and 2 ♀, from Central Asia (B. 24. 4. 99. 1); purchased in the Liverpool market.

Wryneck (*Jynx torquilla*, Linn.), ♂, from West Park, St. Helens (B. 16. 5. 99. 1); presented by Mr. T. West.

Curassow (*Crao panamensis*, Grant) (B. 2. 6. 99. 1); purchased.

Seven Landrails (*Crex crex* (Linn.)), 3 ♂ and 4 ♀, from Dalbeattie, N.B. (B. 24. 7. 99. 1): presented by Mr. Swanson, *per* Alexander Maxwell, Esq.

Hornbill (*Ceratogymna atrata*, Temm., jr.), from Setta Cama, West Africa (B. 24. 7. 99. 3); presented by Mr. A. Ridyard.

Kingfisher (**Alcedo ispida*, sub-sp. *floresiana*, Sharpe), ♂, from Waingapo, Sumba (B. 28. 8. 99. 1); presented by Mr. H. C. Robinson.

**Chlorocharis squamiceps*, Hart, ♀, from South Celebes, and **Zosterops aignani*, Hart, ♀, from the Lousiade Archipelago (B. 28. 8. 99. 2 and 3); received in exchange. (See page 16).

Collection of 15 specimens, representing twelve species of Birds from China, of which the following are new to the collection:— **Ianthocincla berthemyi*, David; **Brachypteryx sinensis*, Rickett, ♀; **Staphidia torqueola* (Swinh.); **Fulina pallida*, De la Touche, ♂; and **Iole holti* (Swinh.), ♂ (B. 28. 8. 99. 4-15): purchased.

Collection of eleven specimens, representing ten species of Birds from S. E. New Guinea, of which **Melanopyrrhus orientalis*, Schleg. is new to the collection (B. 28. 8. 99. 16-25); purchased.

Collection of ten specimens, representing seven species of Birds principally from Brazil (B. 28. 8. 99. 26-32): purchased.

Collection of 45 specimens, representing 38 species of Birds, (B. 28. 8. 99. 33-70) ex "Challenger" Collection; presented by the Trustees of the British Museum.

Two American Rheas (*Rhea americana* (Vieill.)) (B. 28. 8. 99. 71); presented by Mr. C. Proctor.

Collection of Bird Skins, with eggs of certain of the Sea Birds from the Galapagos Islands and Clarion Islands of the Revilla Gigedo Group, consisting of about 350 specimens, representing 82 species, of which the following are new to the collection: **Nesomimus trifasciatus* (Gould); **N. macdonaldi*, Ridgw.; **N. adamsi*, Ridgw.; **N. melanotis* sub-sp. *personatus*, Ridgw.; **N. melanotis* (Gould); **N. melanotis*, sub-sp. *carringtoni*, W. Rothsch.; **N. melanotis*, sub-sp. *bauri*, Ridgw.; **N. melanotis*, sub-sp. *bindloei*, Ridgw.; **N. parrulus* (J. Gould); **Certhidea olivacea*, sub-sp. *luteola*, Ridgw.; **C. olivacea*, sub-sp. *ridgwayi*, Roth. and Hart.; **C. olivacea*, sub-sp. *becki*, Roth.; **C. olivacea*, sub-sp. **mentalis*, Ridgw.; **C. cinerascens*, Ridgw.; **C. cinerascens*, sub-sp. *bifasciatus*, Ridgw.; **Progne concolor*, Gould; **Geospiza conirostris*, Ridgw.; **G. conirostris*, sub-sp. *propinqua*, Ridgw.; **G. dubia*, Gould; **G. dubia*, sub-sp. *albamarlei*, Ridgw.; **G. fortis*, sub-sp. *fratercula*, Ridgw.

**G. fuliginosa*, sub-sp. *minor*, Roth. and Hart.: **G. acutirostris*, Ridgw.: **G. scandens* (Gould): **G. scandens*, sub-sp. *intermedia*, Ridgw.: **G. scandens*, sub-sp. *septentrionalis*, Roth. and Hart.: **G. pallida* (Scl. and Salv.): **G. psittacula* (Gould): **G. affinis* (Ridgw.): **G. difficilis*, Sharpe: **G. debilirostris*, Ridgw.: **G. habeli* (Scl. and Salv.): **G. paupera* (Ridgw.): **G. salvini* (Ridgw.): **G. prothemelas* (Scl. and Salv.): **Pyrocephalus dubius*, Gould: **Buteo galapagoensis* (Gould): **Asio galapagoensis* (Gould): **Pelecanus fuscus*, sub-sp. *californicus*, Ridgw.: **Sula piscatrix*, sub-sp. *websteri*, Roth.: **S. nebowxi*, Milne, Edw.; **Butorides plumbeus* (Sund.): **Porcilonetta bahamensis*, sub-sp. *galapagensis*, Ridgw.: **Nesopelia galapagoensis*, sub-sp. *exsul*, Roth. and Hart.: **Hæmatopus galapagensis*, Ridgw.: **Larus fuliginosus*, Gould: **Xema furcata* (Nébowx): **Anous stolidus*, sub-sp. *galapagensis*, Sharpe: **Diomedea irrorata*, Salv.: **Puffinus obscurus*, sub-sp., *subalaris*, Ridgw.: **Aestrelata phaeopygia*, Salv.: **Oceanodroma gracilis* (Elliot): and **Spheniscus mendiculus*, Sund. (B. 28. 8. 99. 72-154): purchased.

Two specimens of *Myzomela rosenbergi*, Schleg., ♂ and ♀ from New Guinea (B. 26. 9. 99. 1); purchased.

Specimen of **Jacana nigra* (Gm.) from Panama (B. 26. 9. 99. 2); received in exchange (see p. 16).

Collection of Bird Skins containing 46 specimens, representing 37 species of which the following are new to the collection: **Trichoglossus hæmatodes*, sub-sp. *fortis*, Hart. ♀: **T. mitchelli*, G. R. Gr. ♂: **Osmotreron teysmanni* (Schleg.), ♂: **Ptilinopus albocinctus* (Wall.), ♂: **Carpophaga sasakensis*, Hart. ♀: **Macropygia ruficeps*, sub-sp. *orientalis*, Hart. ♀: **Parotia lawesi*, Rams. ♂: **Cnemophilus macgregorii*, De Vis.: **Loria loria*, Salvad. ♂: **Haematortyx sanguiniceps*, Sharpe ♂: **Polyplectron nehrkorne*, Blas. ♂: **Turnix rufilatus*, Wall. ♂: **Pitta maria*, Hart. ♀: **P. concinna*, sub-sp. *everetti*, Hart. ♀: **P. finschi*, Rams. ♀: **Podargus intermedius*, Hart. ♀: **Geocichla dohertyi*, Hart. ♀: **Pachycephala nudigula*, Hart. ♂: **P. everetti*, Hart. ♂: **P. melanura*, sub-sp. *buruensis*, Hart. ♂: **Scops albiventris*, Sharpe, ♂: **Spiloglaux fusca* (Vieill.) ♀: **Hieraglaux rudolphi* (Meyer) ♂: **Orthnocichla everetti*, Hart. ♂: **Melirrhophetes belfordi*, De Vis.: **Tropidorhynchus timoriensis*, sub-sp. *neglectus*, Buttik, ♀: **Chlorura intermedia*, Hart. ♀: **Turdinus finschi* (Wall.)

♀; **Acmonorhynchus aureolimbatus* (Wall.) and **Graculus sumbensis*, Meyer, ♂ (B. 10. 10. 99. 1-37); purchased.

Skin of **Pitta kuehni*, Roth., from Kei Island (B. 27. 11. 99. 1) presented by the Hon. Walter Rothschild.

Skin of *Lorius hypnochrus*, sub-sp. *devittatus*, Hartert, from Woodlark Island (B. 13. 12. 99. 1); presented by Mr. H. C. Robinson.

Two Birds of Paradise (**Paradisaea intermedia*, De Vis. ♂ and ♀) from British New Guinea (B. 13. 12. 99. 2); purchased.

Collection of Bird Skins containing 44 specimens representing 29 species from New Guinea, of which the following are new to the collection: **Halcyon nigrocyaneus*, Wall.: **Ptilotis megarhynchus*, G. R. Gr.: **Poecilodryas bimaculata* (Salvad.): **P. leucops* (Salvad.): **Pachycephala hyperythra*, Salvad.; **Monarcha frater*, Selat.; **Rhectes cristatus*, Salvad.; and **Caliechthrus leucolophus* (S. Müll.) (B. 13. 12. 99. 3-31); purchased.

Five Bird Skins (*Ptilinopus roseicapillus* (Less.)), 2 ♂; *Halcyon cinnamominus*, Swains. ♂ and ♀, and *Phlogoenas zanthonura*, (Temm.), ♀ imm.), from Marianne Islands (B. 31. 12. 99. 1-3), received in exchange. (See page 17).

Two Moa Bones (B. 31. 12. 99. 4 and 5); received in 1894 with a view to exchange, and being left unclaimed now referred to Register of this year.

Cory's Least Bittern (**Ardetta neoxena*, Cory) ♀ (B. 31. 12. 99. 6); received in exchange. (See page 16).

Mammals.

Bosman's Potto (*Perodicticus potto* (Geoffr.)); a Blue-faced Monkey (*Cercopithecus cephus*, F. Cuv.), and a Collared Mangabey (*Cercocebus collaris*, Gray), from Batanga, West Africa (A. 28. 2. 99. 1-3); presented by Mr. J. Newberry, per Mr. A. Ridyard.

A Mongoose (*sp. indet.*), from Cameroon, West Africa (A. 28. 2. 99. 4); presented by Mr. S. Smith, per Mr. A. Ridyard.

Harnessed Antelope (*Tragelaphus scriptus* (Pall.)) (A. 24. 4. 99. 1) American Puma (*Felis concolor*, L.) (A. 29. 5. 99. 1); a Polar Bear (*Ursus maritimus*, L.) (A. 24. 7. 99. 2); and a Chimpanzee (*Anthropopithecus niger*, (Linn.)) (A. 10. 10. 99. 4); presented by Messrs. Barnum & Bailey.

Human Skull from Isla Santa Isabel (A. 29. 5. 99. 2) ; purchased.

Anoa (*Anoa depressicornis* (H. Smith), juv.) (A. 1. 6. 99. 1) ; purchased.

Brain of *Ornithorhynchus paradoxus*, Blumb. ; young of *Macropus major*, *Phalangista* sp., and a *Cuscus* (A. 28. 8. 99. 1-6) ; ex "Challenger" collection, presented by the trustees of the British Museum.

A Bat Skin from Virgin Island, British West Indies (A. 28. 8. 99. 7) ; presented by Mr. Leonard Reade.

Skin and Skeleton of *Notoryctes typhlops*, Stirling (A. 28. 8. 99. 8) ; Skin and Skull of *Putorius nudipes*, from Sarawak (A. 26. 9. 99. 1) ; Skins and Skulls of *Perognathus pernix*, Allen, and *Peromyscus thurberi*, from Mexico, and Skin of *Tupaia melanura*, from Sarawak (A. 10. 10. 99. 1-3) ; purchased.

Skins and Skulls of *Hylobates mülleri*, Martin, ♂, and *Nasalis larvatus*, (Wurmb.), ♀, from Sarawak (A. 27. 11. 99. 1 and 2) : received in exchange (see page 16).

Bosman's Potto (*Perodicticus potto*, (Geoffr.)), from Cameroons : Rüppell's Guereza (*Colobus guereza*, Rüpp. var. *occidentalis*, Roche), from Boma, River Congo ; White-collared Mangabey (*Cercocebus collaris*, Gray), from Bongo, Sette Cama, West Africa ; two young Mandrills (*Papio maimon*, (Linn.)), from West Africa (A. 27. 11. 99. 3, 4, 6 and 7) ; presented by Mr. A. Ridyard.

Skull of Hippopotamus (*Hippopotamus amphibius*, Linn.), from Sette Cama, West Africa (A. 27. 11. 99. 5) ; presented by Mr. H. B. Crompton, per Mr. A. Ridyard.

BOTANICAL DEPARTMENT.

The acquisitions in this department are as follows :--

Two twigs of Gum-tree (*Eucalyptus* sp.) with flower galls from N. W. Australia (E. 26. 1. 99. 1) ; purchased.

A collection of dried Plants, comprising Flowering Plants and a few Grasses and Sedges, and also a few Ferns ; taken from the Store Room, with no reference number, and now referred to Register of this year (E. 22. 2. 99. 1).

Ten "Broke-back Seeds"—fruits (*indet.*) ; two groups of the fruit of "Earay"—one of the Peppers (*indet.*) ; four Kola nuts—seeds of *Cola acuminata*?—from Sierra Leone: four Mango Seeds (*Mangifera gabonensis*?) from Matadi, River Congo; one dried specimen of "Wild Passion flower" (*indet.*) in fruit; one dried specimen of another creeping plant (*indet.*) from Swedish Mission, Matadi, River Congo; three fruits of the Avocado Pear (*Persea gratissima*) from Sierra Leone (E. 28. 2. 99. 1-7); presented by Mr. A. Ridyard.

Seven sample pieces of Woods from Batanga, W. Africa (E. 1. 3. 99. 1-7); presented by Mr. John Newberry, *per* Mr. A. Ridyard.

A collection of Sea-weeds from Llandudno, consisting of about 60 specimens, and representing 21 species (E. 5. 4. 99. 1-22):—*Polysiphonia nigrescens*, Grev.; *P. simulans*, Harv. (?); *Dasya coccinea*, Ag.; *Chylocladia articulata*, Grev.; *Corallina officinalis*, L.; *Delesseria sinuosa*, Lamour.; *D. alata*, Lamour.; *Plocamium coccineum*, Lyngb.; *Rhodymenia palmata*, Grev.; *R. palmata*, var. *sobolifera*: *R. ciliata*, Grev.; *Gymnogongrus plicatus*, Kütz., *Ceramium rubrum*, Ag., *Griffithsia setacea*, Ag.; *Bryopsis plumosa*, Ag.; *Cladophora rupestris*, Kütz.; *C. læterirens*, Kütz.; *Enteromorpha intestinalis*, Link.; *Ulva latissima*, L.; *Porphyra vulgaris*, Ag.; *Laminaria digitata*, Lamour.; *Cladostephus spongiosus*, Ag.: collected and presented by Alderman J. N. Stolterfoht.

Sea-weeds, collected at Hilbre Island, by a member of the Staff, about 40 specimens, representing a dozen species (E. 12. 4. 99. 1-10):—*Polysiphonia nigrescens*, Grev. (with *Ceramium rubrum*, Ag., *Ulva latissima*, L., Confervæ and Diatoms attached to it); *Ceramium rubrum*, Ag. (with Diatoms attached to it); *Cladophora læterirens*, Kütz.; *Enteromorpha compressa*, Grev.; *Ulva latissima*, L.; *Ectocarpus siliculosus*, Lyngb.; *Cladophora rupestris*, Kütz.

One "Ground Yam"—tuberous root (*indet.*) ; one Mango—fruit of *Mangifera gabonensis*? from Sierra Leone; one Cocoa Pod—fruit of *Theobroma Cacao* from Fernando Po; one *Melobesia polymorpha*, L. from Bata, S. W. Africa (E. 15. 6. 99. 1 & 2; 16. 6. 99. 1.; 26. 6. 99. 1); presented by Mr. A. Ridyard.

One Puff-ball (*Lycoperdon giganteum*, Batsch.) weighing 18 lbs. when pulled, found growing in the grounds of the Asylum, Haydock Lodge, Newton-le-Willows, 30. 6. 99 (E. 27. 7. 99. 1); presented by Dr. Street,

One flowering shoot of Hound's-tongue (*Cynoglossum officinale*, L.) from beyond Hinderton, Cheshire (E. 27. 7. 99. 2); presented by Mr. Pass, Rock Ferry.

Box, containing 41 specimens of Woods, named and labelled "Growth and produce of Canada"; slice of a Burr from Brown Oak?; two cones of a Pine; fruit of a Gourd (*Luffa* sp.) from Alexandria; fruiting branch of Palm-oil Nut Palm (*Elæis guineensis*?) from the coast of Africa; small box of Fruits, Seeds, a Gall and a Galled Oak Leaf; fifteen lengths of a tubular vegetable? growth, "found floating off the Cape of Good Hope"; two Fungi (*indet.*); eight leguminous Seeds (*indet.*); six Palm? Fruits (*indet.*); taken from the Store Room, with no reference number, and now referred to Register of this year (E. 26. 8. 99. 1-46; 4. 9. 99. 1-4).

One Fungus (*Polyporus squamosus*, Fr.) from an English Red Elm (E. 26. 9. 99. 1); presented by Mr. Wm. Swan.

A number of Seeds found among marine shells from Santa Cruz and Australia (E. 31. 12. 99. 1); presented by Mr. J. Jennings in 1898, and now referred to Register of this year.

MINERALOGICAL AND GEOLOGICAL DEPARTMENT.

The following are the acquisitions in this Department:—

Specimens of Sandstone from the excavations for the underpinning at the Museums extension (F. 23. 1. 99. 1; 25. 1. 99. 1; 7. 2. 99. 1); collected by a member of the Staff.

Specimens of Coal, showing 'Slickensides,' and the composition and structure of Coal (F. 10. 3. 99. 1): selected by a member of the staff from a load of Coal delivered at the Museums.

Piece of Talc from Gaboon River, Congo Français, S. W. Africa (F. 13. 3. 99. 1); presented by Mr. A. Ridyard.

Pieces of Stone from the old gable of the Museums, showing the effect of 38 years' weathering (F. 24. 3. 99. 1): collected by a member of the Staff.

Small Glaciated Granite Boulder, beginning to "rot," from 'clay,' about 7ft. below the level of the road-way at excavations at the Fire

Salvage Yard, Hatton Garden, Liverpool (F. 15. 8. 99. 1): collected and presented by Mr. James Connely.

One hundred specimens of Rocks from Italy (F. 11. 10. 99. 1-100); purchased.

Four Minerals from the Congo District (F. 31. 12. 99. 1-4); presented by Mr. A. Ridyard in 1898, and now referred to Register of this year.

Specimen of Labuan Coal (F. 31. 12. 99. 5); presented by Mr. J. M. Wood in 1898, and now referred to Register of this year.

Collection of Minerals consisting of eighteen specimens (F. 31. 12. 99. 6-19); presented by the Trustees of the late Nathaniel Caine.

THE AQUARIUM.

The Aquarium continues to be one of the chief attractions of the Museum; special interest being taken in the Mud, the Walking and the Electrical Cat Fishes and in the various species of living Anthropoids, which have from time to time been on exhibition.

Our efforts to keep in good health and condition the various tropical animals, have proved very successful, but the want of proper accommodation for living Mammals (Monkeys, etc.) has necessitated their removal to the Zoological Gardens, London. Important donations of West African species have been made from time to time by Messrs. A. Ridyard, Chief Engineer of the S.S. "Niger"; J. Smith, Cameroons; W. G. Stokes, Eloby; J. Newberry, Batanga; F. Cohn, Rio del Rey; W. Dougan, Bathurst; and others.

The hatching of Rainbow Trout Ova in the small Fish hatchery was again very successful, about 80 per cent. of the young Trout being reared.

The following species have been exhibited alive during the year, those with an asterisk being alive at the date of this report:—

Fresh Water Hydræ (*Hydra viridis* and *H. fusca*). Sea-Anemones: The Crass* (*Tealia crassicornis*); Plumose Anemone (*Actinoloba dianthus*); Beadlet* (*Actinia mesembryanthemum*); Cave-dwelling Anemone (*Sagartia troglodytes*); Parasitic Anemone (*Sagartia parasitica*); Pallid Anemone (*Actinia pallida*?); Star-fish (*Uraster rubens*); Horse-leech* (*Hæmopsis vorax*); Fresh-water Polyzoa (*Cristatella*

mucedo, **Plumatella repens*, *Lophopus crystallinus*); Centipede (*sp. indet.*); Fresh-water Beetles (*Dytiscus marginalis*); Common Shrimp (*Crangon vulgaris*); Edible Crab * (*Cancer pagurus*); Common Shore Crab * (*Carcinus maenas*); Hermit Crab * (*Pagurus bernhardus*); Spider Crab (*Stenorhynchus rostratus*); Prawn (*Palæmon serratus*); **Palæmonetes varians*; Pond Snail (*Lymnæa stagnalis*); Fresh-water Eel * (*Anguilla vulgaris*); Loch Leven Trout * (*Salmo levenensis*); Rainbow Trout * (*Salmo irideus*); Gold Carp * (*Carassius auratus*); Three-spined Stickleback * (*Gasterosteus aculeatus*); Fresh-water Gudgeon (*Gobio fluvialis*); Tench * (*Tinca vulgaris*); Rudd (*Leuciscus erythrophthalmus*); Ruffe (*Acerina vulgaris*); Dace* (*Leuciscus vulgaris*); Roach (*Leuciscus rutilus*); Pike * (*Esox lucius*); Perch * (*Perca fluvialis*); White Bream (*Abramis blicca*); Indian Serpent-head * (*Ophiocephalus punctatus*); North American Cat-fish * (*Amiurus catus*); Central American Fresh-water Fish * (*Iheros facetus*); Electric Cat-fish * (*Malapterurus electricus*); Cat-fish (*Clarias anguillaris*); African Mud-fish * (*Protopterus annectens*); Walking Fish * (*Periophthalmus koelreuteri*); the Calabar Polypterus * (*Calamoichthys calabaricus*); Young Ray (*Raja sp.*); Sand Launce (*Ammodytes lanceolatus*); Bullhead (*Cottus scorpius*); Sole * (*Solea vulgaris*); Plaice * (*Pleuronectes platessa*); Lesser Weever (*Trachinus vipera*); Pogge (*Agonus cataphractus*); Common Frog* (*Rana temporaria*) and tadpoles; Tadpole of the Edible Frog: Green Tree Frog (*Hyla arborea*); Natterjack Toad * (*Bufo calamita*); Common Toad * (*Bufo vulgaris*); Italian Toad * (*Bufo vulgaris*); Crested or Great Water Newt * (*Triton cristatus*); Common or Smooth Newt * (*Molge vulgaris*); Spotted Salamander * (*Salamandra maculosa*); American Salamander (*Amblystoma carolina*); Menopoma (*Cryptobranchus alleghaniensis*); Alligator Terrapin * (*Chelydra serpentina*); West African Tortoise * (*Testudo calcarata*); Sternotherere * (*Sternotherus adansonii*); Horned Viper (*Bitis nasicornis*); Snakes (*Crotopeltis monspessulana* and *sp. indet.*); Ringed Snake (*Tropidonotus natrix*); Spanish Ringed Snake (*Tropidonotus natrix*, var. *astreptophorus*); Egyptian Chameleon (*C. basiliscus*); Egyptian Skink (*Scincus officinalis*); Wall Gecko (*Tarentola annularis*); Gecko (*sp. indet.*); Green Lizard * (*Lacerta viridis*); Sand Lizard (*Lacerta agilis*); Brazilian Lizard (*Tropidurus torquatus*); West African Crocodile * (*Mecistops cataphractus*); Hornbills (*Ceratogymna*

atrata): Young Landrails (*Crex crex*): Young West African Crested Eagle (*Lophotriorchis lucani*): two young African Genet Cats (*Genetta pardalis*), (transferred to the Zoological Gardens, London); West African Pouched Rat (*Cricetomys gambianus*), (transferred to the Zoological Gardens, London); Young Drill (*Papio leucophæus*), (transferred to the Zoological Gardens, London); Bosman's Potto (*Perodicticus potto*), (transferred to the Zoological Gardens, London); White-collared Mangabey * (*Cercocebus collaris*), (transferred to the Zoological Gardens, London); African Mongoose, * (*sp. indet.*), transferred to the Zoological Gardens, London): Moustache Monkey * (*Cercopithecus cephus*), transferred to the Zoological Gardens, London); two young Mandrills * (*Papio maimon*), (transferred to the Zoological Gardens, London).

SUMMARY OF ACQUISITIONS.

Zoological.

Protozoa	...	...	1 Species...	...	Numerous Specimens.
Porifera	...	...	12 „	...	18 „
Cœlenterata	...	...	81 „	...	100 „
Echinoderma	...	...	101 „	...	250 „
Vermes	...	...	66 „	...	119 „
Arthropoda (Crustacea)	...	...	28 „	...	64 „
Arthropoda (Tracheata)	...	...	232 „	...	396 „
Mollusca	...	...	276 „	...	1156 „
Tunicata	...	...	17 „	...	22 „
Fishes	...	...	98 „	...	218 „
Amphibians	...	...	5 „	...	6 „
Reptiles	...	...	30 „	...	42 „
Birds	373 „	...	932 „
Mammals	26 „	...	31 „
			<hr/> 1353		<hr/> 3354

Botanical.

Plants	149 Species...	...	227 Specimens.
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Geological and Mineralogical.

Rocks and Minerals	147 + Specimens.
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The aggregate number of specimens acquired by the Derby Museum during 1899 is thus 3,728, compared with 1,633 acquired in 1898.

B.—MAYER MUSEUM.

(a) GENERAL.

A large and interesting series of Ancient Egyptian Antiquities has been received from the Committee of the Egypt Exploration Fund.

Major-General H. G. Robley, of London, generously continues on loan his rare collection of objects illustrative of the Art Work of the Maoris of New Zealand. Since its exhibition numerous visitors have specially visited the Museum to see it. It is to be hoped that some wealthy citizen may yet purchase and present this unique collection, which can never be rivalled or formed again.

Again, we would record our grateful acknowledgments to Mr. A. Ridyard, Chief Engineer, ss. "Niger," for his generous assistance in collecting and bringing home numerous highly interesting, and in some cases, unique objects for the West African Section of the Ethnographical Department: also, for the assistance rendered in this direction through Mr. Ridyard, by Messrs. Dr. E. J. Mettle, A. Forman, G. W. Stokes, S. Smith, E. Holder, O. Sonnenberg, Walter Beattie, H. B. Crompton, Hugh Williams, James Anderson, G. P. During, John Newberry, J. E. Gibney, J. H. Greenhalgh, F. R. C. Lutterodt, J. Hirst, and Mr. Mackay on the coast, who have been ever ready to obtain for the collection special wants; and to Messrs. Elder Dempster & Co. for so kindly continuing their permission for these objects to come freight free.

The collections illustrative of the Arts and Crafts of Primitive Races, as illustrated in the Ethnographical Gallery, have continued to increase during the past year as to completely congest the space at our disposal. The West African Section has again necessitated the allotment of additional space for its better exhibition. It has been impossible to find room for the Australian and the New Guinea exhibits, removed from the east side of the gallery to provide more vacant space for the West African collection, which continues to occupy the east side of the gallery as well as the central cases; additional space is consequently required for them.

Ten large native-made earthenware vessels from the Ucayali River, River Amazon, were presented by Captain J. H. Good.

The Assistant Curator, Mr. P. Entwistle, has been constantly employed in labelling specimens, and adding to them explanatory drawings and photographs, which add greatly to the interest and value of the collection, as well as the preparation of the series of enlargements of the Races of Mankind for the Anthropological Room, for the British Museum, and Cambridge University, as well as the illustrations for the *Bulletin of the Liverpool Museums*.

The enlarged photographs in the Anthropological Room now number 128, together with 25 coloured casts taken from life, and 5 maps.

The following photographs, taken by the Assistant Curator, have been sent to the undermentioned investigators to assist in their studies, or to illustrate works on which they may be engaged:—

Anglo-Saxon Key and Cross, and lithographic print of 'Lovelace' Clock, to Messrs. Cassell & Co., reproduced in *Cassell's Magazine*; set of prints of hafted stone implements from the South Seas, to Dr. Frobenius, Leipzig; prints of the suite of ornaments:—tiara, earrings, necklace, brooch, ring, bracelets, and waist buckle of gold, enamelled black and white, and set with onyxes, carved in cameo with various subjects from Roman history, by Girometti, of Rome, to M. Salomon Reinach, Paris; prints of a carved *Pare*, or Door Ornament, carved step of a *Ko*, or digging implement, carved wooden box, paddle, and double war trumpet, all from New Zealand, to A. Hamilton, Dunedin, for reproduction in his work on *Maori Art*.

In the "Journal of Anatomy and Physiology," Vol. XXXIV., Part II., p. 228, Prof. Paterson, of University College, in conjunction with Mr. Lovegrove, contributes a paper on "Symmetrical perforations of the parietal bones; including an account of a perforated and distorted cranium from the Liverpool Museums." Reference is made to the conclusion come to by Dr. Robert Munro ("Prehistoric Problems," 1897), where the skull possessed by the Mayer Museum is cited as the solitary example of double trepanning known in an English skull. Professor Paterson, however, differs from Dr. Munro, and says, in reference to

this view, "There is no evidence of inflammatory change in the neighbourhood of the perforations: in short, the position and the symmetrical nature of the foramina, associated with other similar instances, one diagnosed during life and known to be congenital, along with the evidence (positive and negative) derived from an examination of the perforations themselves compel us to dismiss at once the view of their formation suggested by Dr. Munro, and to place the perforations in this cranium among those of congenital origin."

(b) LOANS AND DEPOSITS.

The collection of New Zealand Ethnographical objects formed by Major-General H. G. Robley has remained on exhibition during the past year.

(c) EXCHANGES.

Fifteen duplicate West Indian stone implements were sent to Dr. Gregory.

The following specimens of cast metal work from Benin City have been acquired by exchange:—

Plaque (24.4.99.19), representative of a chief or king standing, and holding a staff in the hand and wearing a helmet of feathers, &c.; by his side are two attendants holding shields over him, and other figures carrying guns, &c.; Tusk-holder (24. 4. 99. 20) in form of a human head; Tusk-holder (24. 4. 99. 21), in form of a human head with cone-shaped headdress, and wearing an ornamental necklace; Small Figure of a Man (24. 4. 99. 22), one of a group, holding in his hands a nail and staff; part of a Cone-shaped Headdress (24. 4. 99. 23); lower part of a Casket (24. 4. 99. 24), in form of the lower jaw of an animal: all received in exchange for specimens (7. 10. 97. 4 and 6).

(d) ACQUISITIONS.

(1.)—GENERAL.

No specimens which can be placed under this head have been received during the year.

(2.)—CERAMICS.

The following Wedgwood-ware Basalt Medallions of the Kings and Queens of England, modelled from Astle's portraits, were acquired by purchase (30. 5. 99. 1-30):—Henry I.; Stephen; Henry II.; Richard I.; John; Henry III.; Edward I., II., and III.; Richard II.; Henry IV., V., and VI.; Edward IV. and V.; Richard III.; Henry VIII.; Edward VI.; Mary; Elizabeth; James I.; Charles I. and II.; William III.; Mary II.; Anne; George I., II., and III.

Model of a Cradle in slip-ware (27. 11. 99. 78); purchased.

Selection of early Greek and other Pottery (27. 11. 99. 79-); purchased.

(3.)—ETHNOGRAPHY.

PRE-HISTORIC:—

Seven Palæolithic Flint Implements (12. 1. 99. 1-7), found at Broome, Dorset; purchased.

A selection of stone, bone, and metal Implements, consisting of axe-heads, flint knives, stone spindle-whorls, bone chisels, and bronze fish-hooks, from the Lake Dwellings at Font, near Estavager, Switzerland (12. 1. 99. 8-30); purchased.

Gneiss Celt (28. 8. 99. 26); purchased.

A small collection of Gold Ornaments (24. 7. 99. 136-156), from graves in the United States of Columbia, comprising cloak pins, earrings, various ornaments, small rude human figures and beads (22ct. and 7ct.); purchased.

Twelve Limestone and Chert Implements (25. 9. 99. 176-187), found in Somaliland; purchased.

Collection of Ancient Glass from tombs at Jaffa (28. 8. 99. 25); purchased.

ETHIOPIAN RACE.

Africa.—West and South-west Africa:—

List of specimens collected and presented by Mr. A. Ridyard, Chief Engineer, S.S. "Niger" (Elder, Dempster & Co.):—

Musical Instrument, 'Molo' (9. 3. 99. 1); Fetish, 'Sega Coodi' (9. 3. 99. 2), Fonta, Sengal.

From Sierra Leone:—Stick off the kola tree, used as a toothbrush (9. 3. 99. 3); Cushment, Bangba, and Shaco roots (9. 3. 99. 4-5); leaf and seeds of a plant used for yellow fever (9. 3. 99. 14); Sour sop seeds (27. 11. 99. 6); 'broke back' seeds (27. 11. 99. 7).

From Liberia:—Gourd Enema (9. 3. 99. 13).

From the Gold Coast:—Wooden Spoon (26. 6. 99. 1), Accra; Wicker-work Basket used for carrying loads (9. 3. 99. 6), Axim; White Powder—a medicine—(9. 3. 99. 7), Abeokuta; Ju Ju, or house charm (9. 3. 99. 8), Abeokuta; Ju Ju, a protection against harm during sleep (9. 3. 99. 15), Abeokuta.

Lagos:—Sheath for a knife (9. 3. 99. 9); Ornamental Purse (9. 3. 99. 10); Charm, 'edwara,' against Lightning (26. 6. 99. 2); Fly-flap (27. 11. 99. 1); Calabash (27. 11. 99. 2); Gree gree (27. 11. 99. 3), worn by the Yorubas; Cough Medicine (27. 11. 99. 4); Bitter Kola Nuts (27. 11. 99. 5).

Benin:—Metal Head of a 'Beni' (27. 11. 99. 8) wearing a conical head-dress. A very fine specimen. (*See Plate.*)

From the Cameroons:—

Rio del Rey:—Wooden Canoe Drum (26. 6. 99. 5).

Bali:—Earthenware Pipe-head (9. 3. 99. 16); Jugs, in red earthenware, with rude human figures on front (26. 6. 99. 7-8); Pipe-heads of earthenware of various forms (26. 6. 99. 9-28); Plaited Grass Bags (26. 6. 99. 29-30), Victoria; Parrot Feather Cap, 'ewari' (26. 6. 99. 31); Carved Wooden Mask (26. 6. 99. 32), covered with plaits of human hair, used in the dance, Mandame; Spear (26. 6. 99. 35); Fetish (26. 6. 99. 3), Mandame; Carved Wooden Figure (26. 6. 99. 4); Ju Ju (26. 6. 99. 34), Victoria; Spear (26. 6. 99. 36), N'dola; Knife (26. 6. 99. 46), N'dola; Kroo-boys Harp (27. 11. 99. 9); Knives in Sheaths (27. 11. 99. 10-11), Bassa; large Basket used for carrying kernels (27. 11. 99. 34), Bassa.

Batanga:—War Knife in brass sheath (26. 6. 99. 6); Ebony Walking Stick (27. 11. 99. 12), Buli.

From the Gaboon:—Sette Kama:—Wooden Female Figure (26. 6. 99. 37), Balemba.



METAL HEAD FROM BENIN (27.11.99.8).

Presented by Mr. A. Ridyard.



M'pongwe Country :—Native Iron Hammer (9. 3. 99. 24); War Fetish (26. 6. 99. 33); Nozzle of a Pair of Bellows (27. 11. 99. 13), made of the nest of the white ant, *Termes mordax*, Ingombini Creek; Axe, iron head (27. 11. 99. 14), Muni River; Spear Head (27. 11. 99. 15); Wooden Mask, 'Farce' (27. 11. 99. 16), worn in the dance; Brass Finger Ring (27. 11. 99. 19).

From the Congo Français :—Fly-flap (9. 3. 99. 18); Ju Ju (9. 3. 99. 17); Hoe (9. 3. 99. 19); King's Bell, in iron (9. 3. 99. 20), Chiacca, Mayumba; Wooden Staff (26. 6. 99. 38), Mayumba; Baskets of Plaited Grass (26. 6. 99. 47-49), made by the Ecots; Farina (26. 6. 99. 51); Wooden Figures (26. 6. 99. 52-54), Banana; Mat (27. 11. 99. 17) of 'tapa' cloth, an old piece, Bata; Wooden Spoon (29. 11. 99. 18), Bata; Native Enema (27. 11. 99. 21), Bata; Pipe (27. 11. 99. 20), Tembonie, Ukaka; Spear Heads (27. 11. 99. 22-26), Tembonie, Ukaka.

From the Portuguese Congo :—Fetish (9. 3. 99. 23), Lualli, Chiloango, Landana; Grass Belts for male and female, used by the Fetish priests to detect adultery (26. 6. 99. 39-40), Landana; Gourd (26. 6. 99. 41), filled with a composition, &c., and used for swearing oaths upon, Landana; War 'Ju Ju' (26. 6. 99. 42), Landana; Shell (26. 6. 99. 43), filled with composition, said to stick to the arm of the wearer when anything is about to happen to them, Landana; Fetish, 'Se keh tem beh' (26. 6. 99. 44), from the Mayombi people, Landana; Woven Mat (27. 11. 99. 45), made by the Mayombi, Lualli River, Landana; Figure of a Woman and Child (27. 11. 99. 27), Mayeli, Landana; Fetish (27. 11. 99. 28), N'cutu, Landana; Fetish, 'cossa mabiella' (27. 11. 99. 29), Landana; 'Yambah,' used for smoking (27. 11. 99. 30), Kinsembo.

From the Congo River :—Basket of Plaited Rattan (9. 3. 99. 21), Mayombi; Bottle (26. 6. 99. 50), covered with wicker-work, Longa Bonda; Group of Wooden Figures, representing a native dance (26. 6. 99. 55), Kingvicar, Salongo; two Wooden Figures (27. 11. 99. 31), Banana; Beans, 'wando' (27. 11. 99. 32), Boma.

From the Upper Congo :—Ivory Pestle (9. 3. 99. 22), Kassongo; Pipe-head in Brass (26. 6. 99. 56), Mayema; two Combs (26. 6. 99. 57-58), Noqui; Knife (26. 6. 99. 59), Kassai River;

Arrows, with iron heads (26. 6. 99. 60), Kassai River; Pipe (27. 11. 99. 33), made of a carved gourd, Kassai River: Horn Pipe, inlaid with lead (27. 11. 99. 34), used for smoking, 'Yambah,' Kassai River: Knife (27. 11. 99. 35), Kassai River: Beans (27. 11. 99. 36), Kassai River: Small Plaited Hat (27. 11. 99. 37), with tuft of feathers on top, worn by the young sons of the King of Kassai: Woman's Girdle Dress (27. 11. 99. 32), Bangala: Basket (27. 11. 99. 33), Bangala.

From the Ivory Coast:—Plaited Grass Bag (26. 6. 99. 61), Grand Bereby.

Fernando Po.—Banni District:—

Necklace (26. 6. 99. 63) made of the vertebræ of a snake, worn by the Boobys, Banni: Hat (26. 6. 99. 64) of Plaited Grass, worn by the young men of the Boobys, Banni: Hat (26. 6. 99. 65) of Grass and Feathers, worn by the Boobys at Bantabury.

Miscellaneous:—Photographs as follows:—Fetishes, Mboio: Cannon Fetish, Ndumi: Fetish Ceremony: Street in Matadi: Steward and Servants, Matadi: Group of Kassai Natives: Cabenda Boys: Zanzibari: Monolith on top of Hill at Musserio, S.W. Africa: Street in Fernando Po.

The following specimens from the Cameroons were collected and presented by Mr. S. Smith, *per* Mr. A. Ridyard:—

Two Fetish Heads (26. 6. 99. 66-67), carved in wood, and covered with human skin, used by the slaves of the Duallas in their death plays, and are supposed to be a representation of the deceased, Kounga; Cap of Parrot Feathers (27. 11. 99. 38); Arrows, in sheath (27. 11. 99. 39).

Collected and presented by Mr. E. Holder, *per* Mr. A. Ridyard:—

Ivory Horn, with carved end (27. 11. 99. 40), Bali, Cameroons: Necklace of Cowrie Shells (27. 11. 99. 41), Batanga.

Collected and presented by Dr. E. J. Mettle, Accra, *per* Mr. A. Ridyard:—

Earthenware Bowl, 'Gbe' (27. 11. 99. 35), Gold Coast: Wooden Female Figure, 'Kole,' a chief goddess, worshipped by native Fetish men and women (27. 11. 99. 36), Accra.

The following specimens from Landana, Portuguese Congo, were collected and presented by Mr. O. Sonnenberg, *per* Mr. A. Ridyard:—

Fetish Doctor's Outfit, 'Inganga' (27. 11. 42-46), consisting of (a) Fetish figure with tall headdress and protruding stomach, inlaid with glass; (b) apron, of blue cloth, round the waistband a strip of mammal skin and two tails of the tree porcupine (*cercolabes prehensilis*), and around the bottom a fringe of feathers; (c) mirror, let in wood decorated with tufts of the tails of the tree porcupine and feathers, used when a person is affected with fever; (d) fever fetish, a piece of wood covered with copper, to which is attached a bell, and to it various bags containing miscellaneous objects; (e) skin bag containing miscellaneous objects, used for healing the sick; all from Fute, Chiloango. Wooden Fetish Figure (27. 11. 99. 47), Fute, Chiloango.

Photographs of West African subjects (27. 11. 99. 48), presented by Mr. Walter Beattie, *per* Mr. A. Ridyard.

Eight photographs taken at Buéa, Cameroons (27. 11. 99. 49); presented by Mr. F. R. C. Lutterodt, *per* Mr. A. Ridyard.

The following specimens (24. 4. 99. 1-18) were collected and presented by Mr. J. H. Holland, Curator, Botanical Gardens, Old Calabar:—

Three Carved Wooden Human Heads—one bi-faced—painted respectively yellow and black, black and white, and yellow and black, all carved out of the wood of the cotton tree (*Eriodendron aufractuosum*), Old Calabar; Rude Wood Carving in form of four human heads, attached to a cane flanged foot, Old Calabar; three Wooden Spoons, Ikpa, Old Calabar; two Musical Instruments, the body made from wood of the cotton tree, and the keys from the split petioles of the 'Bamboo Palm,' bound on with African bass, both species of *Raphia*, Old Calabar; Fly Whisk, made of the midribs of the leaflets of the 'Oil Palm' (*Elæis guineensis*), Ikpa, Old Calabar; two Fish-traps, Degema, New Calabar River; Basket, made with native rope known as 'tie tie' (*calamus sp.*); Basket, made with grass, and bound together with African bass (*Rapheria Hookeri*), Old Calabar; Basket, made by an Iboe man in Old Calabar, with the split petioles of the 'oil palm' (*Elæis guineensis*); Hammock,

made with native fibre, probably 'bolo bolo' fibre (*Honckenya ficifolia*), Old Calabar; Mat, from Ikpa, Old Calabar; Mat, made of Pandanus leaves, Ikpa, Old Calabar; Sun Screen, made of the split petioles of the 'bamboo palm' (*Raphia rinifera*), bound together with material made from the epidermis of the young leaves of the same palm, by prisoners at Old Calabar; top of a Casket (?) in cast metal, in form of a human head, wearing a collar, crowned, Benin City.

Two Spears (25. 9. 99. 174-175), with iron heads and wooden shafts, covered with hide, Mandingo; purchased.

Axe (28. 8. 99. 41), iron head with finely punched design; Gaboon, purchased.

From Benin City:—

Figure of a 'Beni' Man (30. 5. 99. 1), wearing a long garment bound round the waist by a girdle, the body and skirt of which is decorated with various ornamental designs; on the breast is a cross, and round the neck a necklace; imperfect. Height, $23\frac{3}{8}$ inches; purchased. Carved Wooden Paddle (28. 8. 99. 49); purchased.

South Africa:—Large Shield of Rhinoceros Hide (28. 8. 99. 42); two Bone Snuff Spoons (28. 8. 99. 43-44); Bone Snuff Box, Spoon and Comb (28. 8. 99. 45); Leather Figures of a Kaffir Man and Woman (28. 8. 99. 46-47); all purchased.

Melanesia.—

New Hebrides:—Carved Wooden Paddle (28. 8. 99. 49); two Fish Spears (28. 8. 99. 52-53) with long barbed bone heads, Tanna; Head of a Lance (28. 8. 99. 62), with several spines of the sting ray attached; Dance Paddle (28. 8. 99. 51); all purchased.

Fiji Islands:—

Club (28. 8. 99. 54), finely carved; Bowl for Kava (28. 8. 99. 56); purchased.

Solomon Islands:—

Club (28. 8. 99. 48) of Wood, carved and painted; purchased.

Polynesia.—Hervey Islands:—

Canoe Baler of Wood, finely carved (28. 8. 99. 57); purchased.

Mikronesia.—Kingsmill Islands:—

Sharks' Teeth Hand Club (28. 8. 99. 61): purchased.

Miscellaneous:—Long Wooden Spear (28. 8. 99. 55), on the shaft—near the head—are two rows of ray fish spines; purchased.

MONGOLIAN RACE.**America.**—South:—

Ten Bowls (27. 11. 99. 50-59) of light coloured earthenware, used as water vessels; the outsides are coated with white clay, on which is painted conventional designs, over which is a coat of varnish; brought from the Ucayali, River Amazon, and presented by Captain J. Good.

Sieve (28. 8. 99. 29), used for preparing cassava or manioc bread, Brazil; two Pouches (28. 8. 99. 30-31), made of plaited rattan, with design in black, Surinan; two Netted Cotton Bags (28. 8. 99. 32-33), Brazil; Bag (28. 8. 99. 34) of Plaited Fibre, Brazil; six Netted Bags (28. 8. 99. 35-40), made of Bromelia, Costa Rica; all purchased.

North:—Hat of Plaited Fibre, with painted token designs (28. 8. 99. 27), Queen Charlotte's Island; purchased.

Fur Cap (25. 9. 99. 1), Eskimo; presented by Miss Fell.

Triple-headed Bone Head of a Lance (28. 8. 99. 28), Eskimo; purchased.

West Indies.—

A collection of Carib Stone and Shell Implements (24. 7. 99. 1-135) of various forms collected by Dr. Durant in Granada, Trinidad and the other islands, was acquired by purchase.

Malay Archipelago.—Lombok:—

Kris (26. 6. 99. 80) from the natives of Western Lombok, called 'Sasakkers'; Kris (26. 6. 99. 81), from the natives of Eastern Lombok, called 'Lombokers'; presented by Mr. N. A. Lionarons.

Nias :—

The following specimens (27. 11. 99. 61-77), from the Nias Islands, were acquired by purchase:—Wooden Idol, '*Adu Siraha salaru*': five Ancestral Figures in wood: two Spears, with iron heads and wooden shafts, ornamented with a series of rings of plaited rattan and brass: three Iron Swords, with elaborately carved wooden handles and brass bound sheaths: two Wooden Shields, one covered with hide.

Japan.—

Four Coloured Prints by Hokusai, Kuniyashi, and Yoshitsuya (24. 4. 99. 27-30); purchased.

China.—

Red Leather Quiver and seven Arrows (28. 8. 99. 60), brought home by Sir Fleming Senhouse; purchased.

Mexico.—

Thirty-eight Water-colour Drawings of Natives of Mexico, painted about 1850 (24. 4. 99. 26); purchased.

CAUCASIAN RACE.**Egypt.—**

A selection of Egyptian Antiquities (25. 1. 99. 2-164), from Abadiyeh; presented by the Committee of the Egypt Exploration Fund.

Ancient Egyptian Model of a Granary (13. 12. 99. 1), from Dér el Bahri, XI. Dynasty; presented by the Committee of the Egypt Exploration Fund.

Selection of Ancient Egyptian Stone Implements (28. 8. 99. 63-74) from Wadi Sojoor, Eastern Desert; purchased.

Italy.—

Model of a Hound in painted terra-cotta (24. 4. 99. 25), intended as part of a group representative of the Nativity at Christmastide, South Italian, 18th century; purchased.

Sweden.—

Example of Hair Plaiting by Dalecarlian Peasants (9. 2. 99. 1); presented by Dr. J. B. Nevins.

Sokotra.—

The following specimens (26. 6. 99. 82-102) were collected by the Sokotran Expedition, 1898-1899:—From Lahej, S. Arabia:—Shepherd's Pipes, '*Shubeb*'; Wooden Key for a wooden lock; Carved Knife in ornamental sheath of leather and brass. From Abd-el-Kuri:—Diver's Nose Tweezer. From Sokotra:—Wooden Lock and Key; Weaving Machine, with samples of hair and spools of wool; Stone Quern, and the bag in which the quern is placed when in use; Camel Pack Bag; Small Box of '*Civet*' scent; eleven Bowls, Jugs and Vases of light red earthenware, painted in dark red; Fire Stick.

Miscellaneous.—

Tinder Pouch and Steel (27. 11. 99. 60), East Turkistan; purchased.

Double-headed Drum (28. 8. 99. 58) and Painted Bowl (28. 8. 99. 59), Cingalese; purchased.

SUMMARY OF ACQUISITIONS.

Ceramics ...	...	...	...	...	...	...	40
Ethnography ...	...	...	...	...	...	...	684
							<hr/>
							724
							<hr/>

HENRY O. FORBES,

DIRECTOR.

PRESENTED

17 JUN 1904



FORTY-EIGHTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
PUBLIC LIBRARIES,
MUSEUMS,
AND
ART GALLERY,
OF THE
CITY OF LIVERPOOL,

FOR THE YEAR ENDING 31ST DECEMBER, 1900.



LIVERPOOL :

C. TINLING AND CO., PRINTING CONTRACTORS, 53, VICTORIA STREET.

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for the Year 1900-1901.

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GENERAL REPORT.

I do not think I can usefully add very much to the exhaustive and interesting report of the Chief Librarian.

Public Libraries are used by two sections of the community: those who wish to pass away a few hours in reading magazines and light literature, and those who are actuated by a desire to improve themselves, or, who are studying or making researches in literature and in science.

It is very gratifying to find that there is a considerable increase in the number of serious readers, and that works on technical subjects, travel, and modern languages have been in larger request. A recent visit to many of the principal libraries in America has impressed me very much with the marked difference in the attitude of the readers in the American Institutions. There, young people frequent the public libraries in large numbers for the purpose of education, and their seriousness and their systematic methods of study prove how great is the value they set upon self-education, and it is but an indication which one sees on all sides in America of the practical realisation of the earnest purposes of life which is carrying the American people so rapidly to the front in commerce and in manufactures, and which will equally before very long shew itself in literature and art.

We have nothing to learn from America in the arrangement and equipment of a public library, or in the conveniences for study placed at the disposal of our readers.

The Hornby bequest of books on art makes a notable addition to our stores of literature, and is rich in first and unique editions, while a large number of volumes are magnificent specimens of the bookbinder's art.

The new South Library is in course of erection, and the Committee hope before the end of the year that the proposed libraries for Wavertree and West Derby will also have made good progress.

Other centres for libraries have been suggested to the Committee, notably in Kirkdale, but as it costs £1,000 per annum to maintain a library and reading room, the Committee regret they are unable to proceed with the erection of additional libraries as rapidly as they would wish if they had the necessary financial resources.

Work in the Museum has been greatly hindered by the alterations in connection with the new galleries. We hope to have these galleries completed in the course of a few months.

The pictures in the permanent gallery have been distributed in the rooms usually occupied by the Autumn Exhibition, and for the first time the public have been enabled to appreciate the extent and beauty of this collection. It has brought into prominence the urgent need of additional gallery space, if proper justice is to be done to our art treasures.

WILLIAM B. FORWOOD,

CHAIRMAN.

LIBRARY DEPARTMENT.

CHIEF LIBRARIAN'S REPORT.

Statistical tables as a rule are not attractive reading, and no exception is claimed for those herewith presented which shew in detail the work of the City Free Libraries during the past year. To educationists and to the thoughtful in general the reading of a great community should prove both interesting and instructive. It will be seen from Table I that no less than 1,485,524 volumes have been more or less read in the public Reading Rooms or taken away for home reading. In addition to this 728,128 magazines, reviews, and periodicals of all kinds have been issued. The various newspapers provided have been read and consulted by 612,386 persons, and the free lectures attended by 58,929. These figures compared with those of last year show a total decrease under the foregoing headings of 81,628. The volumes issued for home reading are less by 31,408, but as the Central Lending Library was closed for three weeks for structural alterations a material portion of this decrease is due to that cause. The balance of some 50,000 is in the reduced number of magazine and newspaper readers. A falling off in the number of working men attending the various Reading Rooms has been observable during the whole of the year, due no doubt to the excellent state of trade. Our Reading Rooms form a reliable indicator of the condition of trade in the City, particularly at the docks.

An examination of Table II exhibits the steadily growing demand for books of a technical character, for books of travel, and for books for the study of modern languages. Taking the Reference Library as the principal exponent of what the people read, and comparing the book issues in 1900 with those in 1890, we have of technical books 41,863 against 28,450, of works of travel 20,691 against 9,822, and of books for the study of modern languages 20,653 against 6,540. It may here be noted as showing perhaps a sign of the times that the issue of Latin and Greek classics last year was only 2,730 volumes, compared with 3,679 in 1889.

Another of the signs of the times may possibly be seen in the growing number of lady student readers who use the Picton Reading Room. In 1899 they numbered 6,910; last year this number was increased by 882, making a total of 7,792. Ten years ago no statistics were taken of the number of lady readers, but the number then bore no comparison with that of last year. It may be mentioned that novels, illustrated papers, and the lighter kind of magazines are excluded from this room.

A further study of Table II shows a total increase of volumes issued in the Picton Reading Room of 12,619 over those of last year, while compared with ten years ago there is an increase of 55,462 volumes.

The total number of volumes in the Reference Library is 120,243: pamphlets, patents, and Parliamentary papers are not counted as volumes except when a number of them are bound together and form a volume in the strict sense of the word. During the last few years the Patent Library has much increased in popularity and usefulness. This is due in a great measure to the more commodious rooms in which it is housed, and the freedom and facilities given to those making investigations. Ten years ago the issue of patents only numbered 17,125. This year the number has increased to 31,943. The greatest improvement effected in the Library for some years has been in the heating and ventilation of the Brown Library. The obsolete and somewhat dangerous cockles have been removed, and the rooms most efficiently heated and ventilated on Key's "Plenum" system. This alteration has enabled the basement to be utilised for the purposes of book storage, and for providing the Staff with mess and cloak rooms. It also affords the much-needed opportunity for the re-arrangement of the books. The Library had become so congested for want of shelf space that efficiency of service was much diminished and impaired.

Since the foundation of this Library no bequest to it can at all compare in extent, value, and importance to that of the late Mr. Hugh Frederick Hornby, of Wavertree. His gift of books, engravings, and autograph letters of eminent personages may justly be termed princely. To attempt to describe it within the limits of this Report

would be to court failure. Almost every book, by reason of its Art binding, extra illustrations, original drawings, autograph letters, or by some characteristic removing it from the category of an ordinary edition, justifies a description of its own. It is only when the catalogue now in preparation is published that a true appreciation can be formed of this benefaction as a whole, and of the taste and culture of its generous donor. The volumes number upwards of 7,200, and the engravings and etchings exceed 3,000, many being artists' proofs. The autograph letters are contained in some twenty boxes, and are of the greatest interest apart from their unique character and value.

As early as 1852, the first year of the establishment of this Library, the collection of books, pamphlets, maps, drawings, play-bills, and documents of all kinds bearing upon and illustrating the history and progress of Liverpool, has been carried on with considerable zeal. The collection is now both valuable and extensive.

The drawings in the Library of the Liverpool past and gone to make way for a newer Liverpool, with wider streets and handsomer buildings, but less quaint and picturesque than those they have replaced, can be numbered by the hundred. In order to give the public some idea of the interest of this collection, an exhibition was held during the year in the large Reading Room of the Brown Library. This proved a revelation of the most agreeable kind, and gave unmingled pleasure to a continuously crowded room. It is proposed to repeat this exhibition, and give the large number of persons who were disappointed in seeing the last exhibition the opportunity they desire.

The Lending Libraries are six in number, with a total stock of books available for home reading amounting to 92,497 volumes. The volumes issued for this purpose during the past year numbered in the aggregate 819,317. This number, large as it is, may reasonably be increased, as many of the books are read by one or more persons other than the borrowers before they are returned to the Library. As the spread of infectious disease through the circulation of the Library books is discussed from time to time more or less nervously by the public, it may be as well to state the

course pursued in order to prevent as far as possible the books becoming a means of contagion. It may be mentioned that well nigh fifty years have elapsed since the Chief Librarian issued the first book in connection with the South Branch Lending Library, and since then more than twenty millions of books have been circulated from the Libraries, and yet he is unable to mention a single authenticated case of infection traceable to this cause. Every reasonable precaution is taken, notwithstanding, to prevent the library books jeopardising the public health. The Medical Officer of Health has the authority of the Library Committee to disinfect, or absolutely destroy, any Library book or books found in a house where infectious disease exists. That this authority is not disregarded is evidenced by the fact that during the past year 13 volumes were destroyed and 178 volumes disinfected, and similar action has been taken for some years past.

The number of borrowers availing themselves of the privileges of the Lending Libraries is 22,244. These may all be considered active readers, as the rule requiring guarantee forms to be renewed every two years tends to eliminate nominal readers. Guarantors have the satisfaction of knowing that their responsibility terminates after this period. To those who are desirous of knowing the social status of the majority of those who use the lending branches, Table VI will probably be found interesting. For the most part they belong to the working classes and to persons of education but of very limited means. The publication of special catalogues of books for the young enables parents and guardians to allow their boys and girls between the ages of nine and fourteen to use the Libraries with greater confidence and satisfaction than formerly. Every care is taken that the books selected for them shall be bright, healthy, and encouraging. The total number of volumes issued during the year from these special juvenile catalogues is 132,535. The books lent in type adapted for the blind are 1,139. Thanks to the generosity and kindly interest taken in the blind of Liverpool by Miss Mary L. Hornby, few public Libraries have so large and excellent a Library of books adapted to their special needs as our own. The books presented by this lady are always of a cheerful and attractive character, and calculated to brighten and enliven

many an otherwise weary hour. Lovers of music will be pleased to learn that the book issues from the Lending Libraries include 19,593 volumes of the compositions of eminent musicians for the organ, violin, and pianoforte. In the selection of many of the more recent additions to the Libraries the Committee has had the valuable assistance of the able Organist of St. George's Hall, Dr. Peace.

The growth and extension of the City have greatly increased the necessity for more Libraries. The new Toxteth Library, with its commodious News and General Reading Room, and rooms for ladies and boys, will be completed, it is expected, in the course of the present year. Both externally and internally the Library will, it is believed, give much pleasure and satisfaction to the inhabitants of the South end of the City. Plans are prepared for the erection of the Wavertree Branch Library and Reading Rooms, and the preparation of other plans for a similar Library in Green Lane, West Derby, is to follow without delay.

The free lectures which, in connection with Library work, were originally instituted by the Committee of this Library thirty-six years ago, continue to be highly appreciated and attract large audiences. Their value as an agreeable means of imparting useful information on many scientific and other subjects to working men and young people calculated to lead up to book study on the same subjects cannot well be called in question. Four years ago they numbered only 50, and were confined in their delivery to the Picton Lecture Hall, William Brown Street. Last year this number was increased to 116, and ten other halls, at varying distances from the Central Hall, were engaged for their delivery.

TABLE I.

SUMMARY OF STATISTICS OF LIBRARY DEPARTMENT.

	Volumes issued.	Weekly, &c. Magazines issued.	Newspaper Visitors.	Lecture Attendance.
Reference Library.				
PICTON READING ROOM:				
Volumes issued.....	246,533			
Magazines and Reviews		178,269		
BROWN LIBRARY:				
Volumes issued.....	110,152			
Monthly and Weekly Magazines		173,606		
Illustrated Papers, issued in volumes ("The Graphic," "Illustrated London News," "Punch," &c.)	35,949			
Directories	91,327			
Specifications of Patents for Inventions	31,943			
Visitors to the Newspapers			270,183	
Lending Libraries (Six).				
Volumes lent for Home Reading	819,317			
KENSINGTON LIBRARY READING ROOMS:				
Volumes issued.....	78,306			
Magazines and Reviews		126,039		
Visitors to the Newspapers			99,134	
EVERTON LIBRARY READING ROOMS:				
Volumes issued.....	67,297			
Magazines and Reviews		199,054		
Visitors to the Newspapers			120,003	
WALTON LIBRARY READING ROOM:				
Volumes issued.....	4,700			
Magazines and Reviews		51,160		
Visitors to the Newspapers			43,037	
Evening Reading Rooms.				
Newspapers, Magazines, and Reviews.....			80,029	
Lectures.				
Attendance				58,929
Totals	1,485,524	728,128	612,386	58,929

TABLE II.

Comparative Statement of issues in the Picton Reading Room:—

Classification.	1900.	1899.
Theology, Morals, and Metaphysics	18,421	19,360
Natural Philosophy, Mathematics, &c.	19,838	20,332
Natural History	7,793	7,736
Science and the Arts	41,863	37,497
History and Biography, &c.	22,145	20,280
Topography and Antiquities	9,151	8,398
Voyages and Travels, Gazetteers, Atlases	20,691	20,543
Collected Works, Essays, &c.	49,748	38,351
Jurisprudence, Law, and Politics	5,886	5,592
Commerce, Political Economy, Social Science, &c.	9,129	7,678
Education and Language	20,653	19,317
Poetry and Dramatic Literature	10,063	10,436
Latin and Greek Classics	2,730	3,419
Encyclopædias, Dictionaries, &c.	8,422	14,972
Totals	246,533	233,914

Showing an increase over 1899 of 12,619 volumes.

TABLE III.

Shewing the number and classification of works contained in the Reference Library:—

Classification.	Volumes.
Theology, Morals, and Metaphysics	8,153
Natural Philosophy, Mathematics, &c.	3,230
Natural History	6,585
Science and the Arts	15,913
History and Biography, &c.	14,595
Topography and Antiquities	6,621
Voyages and Travels, Gazetteers, Atlases	6,029
Miscellaneous Literature (principally collected Works, Essays, Reviews, Societies' Proceedings, &c., in volumes)	29,042
Jurisprudence, Law, and Politics	9,635
Commerce, Political Economy, Social Science, &c.	2,687
Education and Language	2,023
Poetry and Dramatic Literature... ..	4,568
Prose Fiction	5,728
Latin and Greek Classics and Translations	1,050
Encyclopædias and Works of General Reference	4,334

Total 120,213

TABLE IV.
LENDING LIBRARIES.
GENERAL STATISTICS.

Volumes issued, &c.	Central.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total.
Volumes issued in Lending Departments	189,963	152,498	140,630	166,749	103,995	65,482	819,317
Volumes issued in General Reading Rooms.....	—	39,797	—	37,271	4,700	—	81,768
Volumes issued in Ladies' Rooms	—	2,935	—	12,010	—	—	14,945
Volumes issued in Boys' Rooms	—	24,565	—	29,025	—	—	53,590
Magazines issued in General Reading Rooms	—	92,289	—	93,183	51,160	—	236,632
Magazines issued in Ladies' Rooms	—	34,709	—	19,239	—	—	53,948
Magazines issued in Boys' Rooms	—	72,056	—	13,617	—	—	85,673
Newspaper Readers in General Reading Rooms	—	112,762	—	91,549	43,037	—	247,346
Newspaper Readers in Ladies' Rooms	—	7,241	—	7,585	—	—	14,826
New Tickets issued	3,284	1,862	1,823	2,488	1,308	943	11,708
Readers on the Books.....	6,382	3,662	3,473	4,459	2,561	1,707	22,244
Books lost or injured and paid for by Borrowers ...	43	16	23	18	13	3	116
Books lost from Lending Departments	*7	—	—	*8	*2	—	*17
Books stolen from Reading Rooms	—	1	—	—	—	—	1
Volumes worn out and withdrawn	116	387	114	123	—	—	740
Volumes worn out and replaced	878	394	109	489	—	—	1,870
Volumes added	915	736	554	675	356	438	3,674
Total volumes in Libraries	14,091	24,163	26,674	16,069	6,802	4,698	92,497

† The Central Lending Department was closed from July 14th to August 4th, for Alterations and Stocktaking.

* Central Lending Department: Stocktaking in July: it covers a period of two years.

* Kensington Branch: Stocktaking in July: it covers a period of three years.

* Walton Branch: Stocktaking in March: it covers a period of three years.

TABLE V.

Shewing the classification of volumes issued.

Classification.	Lending Departments.						Reading Rooms.			Total Issues.		
	Central.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total Issued for Home Reading.	Everton Branch.	Kensington Branch.		Walton Branch.	Total Issued in Reading Rooms.
Theology, Morals, and Metaphysics.....	1,800	1,486	1,629	1,068	650	221	6,944	2,635	839	55	3,589	10,533
Natural Philosophy and Mathematics.	2,714	1,407	1,501	1,627	1,241	506	8,996	2,776	1,154	296	4,226	13,222
Natural History	2,196	802	733	925	712	346	5,714	628	568	111	1,307	7,021
Science and the Arts	11,223	6,585	5,628	7,972	4,827	2,637	38,872	4,273	3,292	609	8,174	47,046
History and Biography	5,865	3,337	4,640	3,851	2,260	1,742	21,695	3,648	1,570	182	5,400	27,095
Topography and Antiquities	1,241	381	480	633	409	414	3,558	439	526	134	1,099	4,657
Voyages and Travels	4,158	2,201	2,177	2,308	1,550	1,285	13,679	2,824	838	198	3,860	17,539
Miscellaneous Literature	2,809	6,587	5,398	6,284	2,285	617	23,980	9,300	9,858	197	19,355	43,335
Jurisprudence, Law, and Politics.....	572	150	74	195	128	110	1,229	200	148	27	375	1,604
Commerce and Political Economy ..	1,916	918	901	994	439	226	5,394	721	749	75	1,545	6,939
Education and Language	1,338	435	564	540	329	148	3,354	2,675	704	40	3,419	6,773
Poetry and Dramatic Literature	1,303	514	719	666	386	282	3,870	571	735	78	1,384	5,254
Prose Fiction	151,340	105,774	95,377	116,169	88,779	56,948	614,387	11,131	15,626	2,698	29,455	643,842
Latin and Greek Classics	259	159	281	123	—	—	822	145	119	—	264	1,086
Books for the Blind.....	1,139	—	—	—	—	—	1,139	—	—	—	—	1,139
Books for the Young	—	21,762	20,528	23,394	—	—	65,684	25,271	41,580	—	66,851	132,535
TOTALS.....	189,963	152,498	140,630	166,749	103,995	65,482	819,317	67,297	78,306	4,700	150,303	969,620

* Of this total 19,593 were volumes of Music.

TABLE VI.—Shewing classification of Borrowers.

Classification.	Central.	Everton Branch.	Toxteth Branch.	Kensing- ton Branch.	Walton Branch.	Sefton Park Branch.	Total.
Architects, Builders, and Surveyors.....	24	7	6	20	8	4	69
Artists, Photographers, and Draughtsmen	80	17	18	42	10	5	172
Bakers, Butchers, and Grocers	62	101	78	123	33	10	407
Boilermakers, Platers, and Riveters	9	5	13	16	10	—	53
Bookbinders, Printers, and Stationers.....	157	63	42	72	11	7	352
Bookkeepers, Clerks, and Agents	2,314	425	489	615	370	188	4,401
Boot and Shoe Makers	10	5	9	12	3	2	41
Box Makers	28	1	1	4	—	—	34
Brass, Iron, and Steel Founders	26	12	16	23	1	2	80
Bricklayers, Slaterers, and Masons	21	14	9	11	9	1	65
Cabinetmakers, French Polishers, &c.....	45	13	13	38	1	1	111
Carpenters and Joiners	30	36	72	62	24	8	232
Chemists and Druggists	43	12	19	20	6	7	107
Clergymen, Doctors, and Lawyers	65	17	16	25	16	15	154
Coach Painters and Builders.....	7	9	8	17	2	—	43
Cooks, Waiters, and Waitresses	57	2	5	51	3	15	133
Customs' Officers, Police, Postmen, &c. ...	101	67	80	129	23	34	434
Domestic Servants	14	4	3	28	—	44	93
Dressmakers and Milliners.....	123	32	3	77	8	26	269
Engineers, Fitters, and Machinists	98	61	101	78	30	28	396
Farmers and Gardeners	3	3	2	5	5	11	29
Firemen	4	3	7	11	4	—	29
Hairdressers	11	11	14	17	5	1	59
Ironmongers	6	4	4	7	5	2	28
Labourers	33	63	85	19	18	—	218
Licensed Victuallers, Brewers, & Barmen	59	14	13	20	7	4	117
Mariners.....	12	21	21	16	22	7	99
Merchants and Brokers	46	8	36	22	7	17	136
Messengers, Office Boys, and Apprentices.....	356	95	139	96	130	26	842
Music Teachers.....	18	3	6	24	1	2	54
Musicians	30	9	4	50	4	3	100
Nurses	32	9	1	22	13	15	92
Painters, Plumbers, and Gasfitters	16	35	54	56	20	7	188
Pattern Makers, Moulders, and Turners... ..	14	8	33	12	5	3	75
Pawnbrokers	2	12	9	14	4	—	41
Schoolmasters and Teachers	254	177	43	256	110	103	943
Students and Scholars	131	451	110	222	145	85	1,144
Shipwrights, Riggers, and Sailmakers.....	4	10	13	5	3	1	36
Smiths	18	21	15	14	6	—	74
Tailors and Drapers.....	138	24	23	68	8	8	269
Telegraphists and Typists	98	30	44	59	12	16	259
Tobacconists	32	8	5	11	5	—	61
Warehousemen and Storekeepers.....	132	52	46	79	14	5	328
Watchmakers, Jewellers, and Opticians ...	27	8	13	10	9	—	67
Miscellaneous	296	72	74	75	220	89	826
No occupation (principally females).....	1,296	1,608	1,658	1,806	1,211	905	8,484
Totals.....	6,882	3,662	3,473	4,459	2,561	1,707	22,244

TABLE VII.—EVENING READING ROOMS.

	1900.		1899.	
	Attendance.	Average per Night.	Attendance.	Average per Night.
Chatsworth Street Board Schools ...	25,574	84	25,410	84
Stanley Road Board Schools	41,461	137	45,134	149
Wellington Road School	12,994	43	14,358	47
	80,029	264	84,902	280

FREE LECTURES.

DELIVERED IN THE PICTON LECTURE HALL, JANUARY TO MARCH.

- ARCHER, ROBERT S. "Robert Burns: his life, poems, and songs," with lantern illustrations.
- BACON, REV. JOHN M., M.A., F.R.A.S. "Voyages in Cloudland," with lantern illustrations.
- BURSTALL, FRED. H., F.R.C.O., Cathedral Organist, Liverpool. "Mendelssohn: a sketch of his life and works," with musical illustrations.
- CAIRNS, W. MURRAY, M.B., "Insectivorous plants," with lantern illustrations.
- CLUBB, JOSEPH A., M.Sc., Assistant Curator of the Derby Museum, Liverpool. "Flowers of the sea," with lantern illustrations.
- ELLIS, JOHN W., M.B., F.E.S. "The Black Mountains and Golden Valley: a visit to King Arthur's country," with lantern illustrations.
- FORBES, HENRY O., LL.D., F.R.G.S., Director of Museums, Liverpool. "An account of the Corporation's Expedition to Socotra," with lantern illustrations.
- FORTAY, J. BUTLER. "Rossini and Italian music," with musical illustrations.
- GASKING, REV. SAMUEL, B.A., F.L.S., F.G.S. "The natural history of a cob of coal," with lantern illustrations.
- GRENSTED, REV. F. F., M.A., Diocesan Inspector of Religious Education. "When England was under ice," with lantern illustrations.
- HARRIS, REV. CHARLES, M.A., F.R.G.S. "Lake Dwellings and Lake Dwellers," with lantern illustrations.
- HARVEY, WILLIAM. "With a Camera in Switzerland and Italy," with lantern illustrations.
- HOWDILL, CHARLES B., A.R.I.B.A. "Yorkshire Minsters: their history, legend, and romance," with lantern illustrations.

- MARTYN, REV. JAMES H., "Oxford: its colleges, men, and manners," with lantern illustrations.
- MORGAN, LLEWELLYN, M.D. "Under St. Hilda's Abbey: or, the rise and fall of a seaport town," with lantern illustrations.
- MOSLEY, S. L., F.E.S. "Beneficial insects," with lantern illustrations.
- NEWTON, JOHN, M.R.C.S. "Children's ways and children's books, past and present," with lantern illustrations.
- PARROTT, J. EDWARD, M.A., LL.D. "The Battle of Waterloo," with lantern illustrations.
- PLUMMER, W. E., M.A., F.R.A.S., Director of the Liverpool Observatory, Bidston. "The phenomena of eclipses," with lantern illustrations.
- SANBY, FREDERICK W. "Minute rock-builders under the sea," with lantern illustrations.
- SLATER, WALTER. "From London to Canterbury with Chaucer's Pilgrims, in the year 1385," with lantern illustrations.
- STUBBS, CAPTAIN EDWARD, R.N. "Curiosities of smuggling," with lantern illustrations.

NOVEMBER AND DECEMBER.

- BLAKENEY, CAPTAIN W., R.N. "Experiences of service in the Navy," with lantern illustrations.
- CAIRNS, W. MURRAY, M.B. "China and the Chinese," with lantern illustrations.
- CRANAGE, REV. D. H. S., M.A., F.S.A. "The buildings of yesterday, to-day, and to-morrow," with lantern illustrations.
- FORBES, HENRY O., LL.D., F.R.G.S., Director of Museums, Liverpool. "The romance of a bone," with lantern illustrations.
- GIBSON, R. J. HARVEY, M.A., F.L.S., Professor of Botany, University College, Liverpool. "Climbing plants," with lantern illustrations.
- HELE-SHAW, H. S., LL.D., F.R.S., Professor of Engineering, University College, Liverpool. "Travelling at high speed," with lantern illustrations.

HERDMAN, W. A., D.Sc., F.R.S., Professor of Natural History, University College, Liverpool. "Antarctic Exploration," with lantern illustrations.

LAMBERT, FREDERICK. "The crystal caves of Australia," with lantern illustrations.

MEAKIN, BUDGETT. "Life in Persia," with lantern illustrations.

MEAKIN, BUDGETT. "A trip up the Yang-tse Kiang, China," with lantern illustrations.

MOSLEY, S. L., F.E.S. "Ants and their strange ways," with lantern illustrations.

NICHOLAS, REV. T. F., M.A., F.R.G.S. "Alaska and the Klondyke Goldfields," with lantern illustrations.

STRACHAN, CAPTAIN D., R.S.O. "The British Army; or, experiences of a military career," with lantern illustrations.

WRAY, W. FITZWATER. "Old English Inns and their story," with lantern illustrations.

DELIVERED IN OUTER DISTRICTS, JANUARY TO MARCH, 1900.

BELMONT HALL, BELMONT ROAD, WEST DERBY:—

"Rossini and Italian music," by J. BUTLER FORTAY; with musical illustrations.

"When England was under ice," by REV. F. F. GRENSTED, M.A., Diocesan Inspector of Religious Education; with lantern illustrations.

"The rivers and broads of Norfolk and Suffolk," by REV. JAMES H. MARTYN; with lantern illustrations.

"Insects: their tools and weapons," by F. W. SAXBY; with lantern illustrations.

JUBILEE HALL, BURLINGTON STREET:—

"Western Norway and its romantic scenery," by HERBERT E. BLAIN; with lantern illustrations.

"The story of some Liverpool street names," by PETER COWELL, F.R.H.S., Chief Librarian, Free Public Libraries, Liverpool; with lantern illustrations.

"Handel: the man and the musician," by J. BUTLER FORTAY;
with musical illustrations.

"Irish verse and Irish story," by JOHN LEE, B.A.; with
illustrative recitals.

EVERTON BRANCH LIBRARY, ST. DOMINGO ROAD:—

"Sherwood Forest, the land of Robin Hood, and its associations," by J. POTTER BRISCOE, F.R.H.S.; with lantern illustrations.

"Central Africans at home," by PETER ENTWISTLE, Assistant Curator of the Mayer Museum, Liverpool; with lantern illustrations.

"In the Shakespeare Country," by REV. JAMES H. MARTYN;
with lantern illustrations.

"The Battle of Waterloo," by J. EDWARD PARROTT, M.A., LL.D.;
with lantern illustrations.

LOCKERBY HALL, LOCKERBY ROAD, FAIRFIELD:—

"Voyages in Cloudland," by REV. JOHN M. BACON, M.A.,
F.R.A.S.; with lantern illustrations.

"With a camera in Switzerland and Italy," by WILLIAM HARVEY; with lantern illustrations.

"Yorkshire Minsters: their history, legend, and romance," by
CHARLES B. HOWDILL, A.R.I.B.A.; with lantern illustrations.

"Beneficial insects," by S. L. MOSLEY, F.E.S.; with lantern illustrations.

GRANBY HALL, GRANBY STREET, TOXTETH:—

"Plymouth to the Lizard lights: sketches in Cornwall," by
ADOLPH W. BEER; with lantern illustrations.

"Lake Dwellings and Lake Dwellers," by REV. CHARLES HARRIS, M.A., F.R.G.S.; with lantern illustrations.

"The Rivers and Broad of Norfolk and Suffolk," by REV. JAMES H. MARTYN; with lantern illustrations.

"Big Telescopes, and what they show us," by W. E. PLUMMER, M.A., F.R.A.S., Director of the Liverpool Observatory, Bidston; with lantern illustrations.

GREGSON MEMORIAL INSTITUTE, GARMOYLE ROAD, SEFTON PARK:—

"Road Locomotion," by H. S. HELE-SHAW, LL.D., F.R.S., Professor of Engineering, University College, Liverpool; with lantern illustrations.

"Natural History of the mouth of the Mersey," by W. A. HERDMAN, D.Sc., F.R.S., Professor of Natural History, University College, Liverpool; with lantern illustrations.

"Through East Anglia with a Camera," by LLEWELLYN MORGAN, M.D.; with lantern illustrations.

"Four years at an Indian Court," by J. ERNEST NEVINS, M.B.; with lantern illustrations.

DOMESTIC MISSION HALL, MILL STREET, TOXTETH:—

"A scamper round Ireland," by ROBERT S. ARCHER; with lantern illustrations.

"My visit to Naples, Pompeii, and Vesuvius," by PETER COWELL, F.R.H.S., Chief Librarian, Free Public Libraries, Liverpool; with lantern illustrations.

"With a camera in Switzerland and Italy," by WILLIAM HARVEY; with lantern illustrations.

"Insects: their tools and weapons," by FREDERICK W. SANBY; with lantern illustrations.

TOWN HALL, WAVERTREE:—

"The Grand Cañon of the Colorado: an example of earth sculpture," by W. HEWITT, B.Sc., Director of Technical Instruction, Liverpool; with lantern illustrations.

"The Battle of Waterloo," by J. EDWARD PARROTT, M.A., LL.D.; with lantern illustrations.

"A trip to Chester, including Eaton Hall and Hawarden Castle," by G. WATMOUGH WEBSTER, F.C.S.; with lantern illustrations.

OCTOBER TO DECEMBER, 1900.

JUBILEE HALL, BURLINGTON STREET:—

- “Through Wales with a camera,” by ROBERT S. ARCHER; with lantern illustrations.
- “The magic carpet: the natural history and philosophy of the world’s rivers,” by E. RIMBAULT DIBBIN; with lantern illustrations.
- “The Avon and Shakespeare country,” by JOHN W. ELLIS, M.B., F.E.S.; with lantern illustrations.
- “Jamaica, the Isle of Springs,” by THEO. H. WARDLEWORTH, F.L.S.; with lantern illustrations.

DERBY HALL, TUEBROOK:—

- “Experiences of service in the Navy,” by CAPTAIN W. BLAKENEY, R.N.; with lantern illustrations.
- “Music and musicians,” by MME. FLORENCE FULTON; with musical illustrations.
- “The age of the Vikings,” by REV. CHARLES HARRIS, M.A.; with lantern illustrations.
- “Old English Inns and their story,” by W. FITZWATER WRAY; with lantern illustrations.

EVERTON BRANCH LIBRARY, ST. DOMINGO ROAD:—

- “Romance and reality at sea,” by FRANK T. BULLEN, F.R.G.S.; with lantern illustrations.
- “Electric tramways and railways,” by ALFRED HAY, B.Sc., Lecturer on Electrotechnics, University College, Liverpool; with lantern illustrations and experiments.
- “The crystal caves of Australia,” by FREDERICK LAMBERT; with lantern illustrations.
- “Ants and their strange ways,” by S. L. MOSLEY, F.E.S.; with lantern illustrations.

GORDON INSTITUTE, STANLEY ROAD:—

- “Rossini and Italian music,” by J. BUTLER FORTAY: with musical illustrations.
- “When England was under ice,” by REV. F. F. GRENSTED, M.A., Diocesan Inspector of Religious Education; with lantern illustrations.
- “Modern short stories and short story writers,” by JOHN LEE, B.A.; with illustrative recitals.
- “Indian famines,” by J. ERNEST NEVINS, M.B.; with lantern illustrations.

GRANBY HALL, GRANBY STREET, TONTETH:—

- “Rossini and Italian music,” by J. BUTLER FORTAY; with musical illustrations.
- “Life in Persia,” by BUDGETT MEAKIN; with lantern illustrations.
- “Indian famines,” by J. ERNEST NEVINS, M.B.; with lantern illustrations.
- “Alaska and the Klondyke Goldfields,” by REV. T. F. NICHOLAS, M.A., F.R.G.S.; with lantern illustrations.

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- “Experiences of service in the Navy,” by CAPTAIN W. BLAKENEY, R.N.; with lantern illustrations.
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- "A tour of the Great Ouse, with glimpses of Fenland," by JOHN W. ELLIS, M.B., F.E.S.; with lantern illustrations.
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KENSINGTON BRANCH LIBRARY:—

- "Through Scotland with Sir Walter Scott," by ROBERT S. ARCHER; with lantern illustrations.
- "China and the Chinese," by W. MURRAY CAIRNS, M.B.; with lantern illustrations.
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- "The crystal caves of Australia," by FREDERICK LAMBERT; with lantern illustrations.

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- "The Liverpool of our Grandfathers, as seen through prints and documents in our Public Library," by PETER COWELL, F.R.H.S., Chief Librarian, Free Public Libraries, Liverpool; with lantern illustrations.
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"A trip up the Yang-tse-Kiang, China," by BUDGETT MEAKIN: with lantern illustrations.

"Life and Works of Gounod," by A. E. WORKMAN: with musical illustrations.

DONATIONS.

BRITISH MUSEUM TRUSTEES:—

The Book of the dead: facsimilies of the papyri of Hunefer, Anhai, Kerasher, and Nethemet, with supplementary text from the papyrus of Nu, with transcripts, translations, &c., by E. A. Wallis Budge; Catalogue of the cuneiform tablets in the Kouyunjik collection, by C. Bezold, vol. 5: Catalogue of drawings of British artists and artists of foreign origin working in Great Britain, by Laurence Binyon, vol. 2: Catalogue of the fossil bryozoa, vol. 1: Cretaceous bryozoa, by J. W. Gregory; Catalogue of the Hindi, Panjabi, and Hindustani manuscripts, by J. F. Blumhardt; Catalogue of the Lepidoptera phalænæ, by Sir G. Hampson, Bart., vol. 2, Text and plates; Catalogue of printed books, 17 vols.; Handbook of the coins of Great Britain and Ireland, by H. A. Grueber; Catalogue of seals in the department of manuscripts, by W. de Birch, vol. 6; Fac-similes of royal, historical, literary, and other autographs, ser. 5; Illustrations of the botany of Captain Cook's voyage round the world in H.M.S. Endeavour in 1768-78, by the Rt. Hon. Sir J. Banks, Bart., and Dr. Daniel Solander, part 1: Index to the charters and rolls in the department of manuscripts, by H. J. Ellis and F. B. Bickley, vol. 1: Monograph of Christmas Island: Rules for compiling the catalogues.

ALDERMAN H. CAMPBELL, J.P.:—

Six autograph letters: Lord Ashley (afterwards 7th Earl of Shaftesbury), Lord Palmerston, the Duke of Sutherland, Earl of Clarendon, and Right Hon. A. J. Balfour, M.P.

PHILIP H. HOLT, Esq.:—

Egypt Exploration Fund: The royal tombs of the first dynasty, by W. M. Flinders Petrie.

MISS HORNBY:—

Santa Lucia: a monthly magazine in Braille type (12 parts).

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Books for the blind in Braille type (33 vols.).

RICHARD HORNBY, Esq.:—

Gore's Liverpool directories, 15 vols. (1862-98): and 5 other directories.

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Das Tonalamatl der Aubin'schen Sammlung: eine altmexikanische Bilderhandschrift der Bibliothèque Nationale in Paris (Manuscripts Mexicains nr 18-19). Auf Kosten Seiner Excellenz des Herzogs von Loubat herausgegeben, mit einleitung und erläuterungen von Dr. Eduard Seler, Berlin, 1890; Il manoscritto Messicano Vaticano 3738 detto il codice rios riprodotto in fotocromografia a spese di sua eccellenza il duca de Loubat per cura delli Biblioteca Vaticana, Rome, 1900.

R. W. RADCLIFFE-SMITH, Esq.:—

Gore's Liverpool directory, various dates from 1859-82. 15 vols.

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Various books, pamphlets, magazines, and newspaper cuttings relating to railways and tramways, with special reference to early local railways.

EDWARD REID, Esq.:—

Turner and Ruskin: an exposition of the works of Turner from the writings of Ruskin, edited with a biographical note on Turner, by Frederick Wedmore. Edition de luxe, with duplicate plates, 3 vols., 1900.

ROYAL IRISH ACADEMY:—

Transactions of the Royal Irish Academy, various sections from vols. 26-31.

UNITED STATES GOVERNMENT:—

Annual report of the Secretary of the Interior, 1885-1895, 30 vols.; Report of the United States geological survey of the territories, vols. 8 and 13: Report of the Superintendent of the United States coast and geodetic survey, 1897-8: and 186 other works.

MRS. C. D. WHETHAM:—

Fac-simile of the manuscript of Milton's Minor poems preserved in the library of Trinity College, Cambridge. Cambridge, 1900.

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tentiary. Geographical Society. Hahnemann Hospital. Holy Trinity Ragged School. Home for the Reception and Recovery of Fallen Women. Hospital for Cancer and Skin Disease. Hospital Sunday and Saturday Fund. Incorporated Chamber of Commerce. Infirmary for Children. Juvenile Reformatory Association. Kirkdale Voluntary Industrial (Day) Ragged School. Literary and Philosophical Society. Liverpool Institute. Mersey Mission to Seamen. Microscopical Society. Peace Society. Penny Savings Bank. Penny Savings Bank Association. Philharmonic Society. Philomatic Society. Royal Infirmary. Royal National Lifeboat Institution. Royal Society for the Prevention of Cruelty to Animals. Royal Southern Hospital. Ruskin Society. Sailors' Home. Savings Bank. School Board. School of Science, Technology and Art. Seamen's Friend Society. Seamen's Orphan Institution. Self-help Emigration Society. Shipwreck and Humane Society. Society of Friends of Foreigners in Distress. Strangers' Rest. Sunday Society. Temporary Home for Lost and Starving Dogs. Training School and Home for Nurses. Training School of Cookery. Training Ship "Indefatigable." United Gas Light Co. Workshops for Out-door Blind. Young Men's Christian Association. Young Women's Christian Association. Liverpool Catholic Publishing Co.; Liverpool Medical Institute; Liverpool Medical Officer of Health (E. W. Hope, M.D., D.Sc.), Annual Reports; Liverpool University; Rev. Walter Lloyd; London and North-Western Railway Co.; Lessee, Lyric Theatre, Liverpool. Messrs. Macdonald & Co.; J. H. McGovern, F.L.A.S.; Messrs. Macmillan & Co.; Manchester Geological Society; Manchester Microscopical Society; Manchester Museum, Owens College; Manchester Statistical Society; Historical and Scientific Society of Manitoba, Canada; F. P. Marrat; Mercantile Marine Service Association, Liverpool; Mersey Conservancy; Mersey Docks and Harbour Board; Meteorological Council, London; L. B. Meunier; Midland Railway Co.; University of Minnesota, U.S.A. (Geological and Natural History Survey of Minnesota); Messrs. T. Moody & Co.; E. Moore; Vice-Admiral Sir G. S. Nares, K.C.D., F.R.S.; National Academy of Sciences, Washington, U.S.A.; National Association for the Promotion of Technical and Secondary Education; National Society for the Prevention of Cruelty to Children; National Union of Women's Suffrage Societies; J. Birkbeck Nevins, M.D.; Agent-General for New Brunswick, London; New Church College, London; Proprietors, New Empire Theatre, Liverpool; Proprietors, New Grand Opera House, Liverpool; Agent-General for New South Wales, London (Sir Julian Salomons, Knt.); New South Wales Government; New South Wales Government Board of International Exchanges, Sydney; Agent-General for New Zealand, London (W. P. Reeves); University of the State of New York, U.S.A.; Nicholson Institute, Leek; North British Railway Co.; North-Eastern Railway Co.; Ministère des cultes et de l' instruction publique, Kristiania, Norway; Norwegian Government; Norwegischen Meteorologischen Institut; Ontario Government Agency, Liverpool (Peter Bryne, Agent); Owens College, Manchester; Stephen Paget; J. E. Parrott, M.A., LL.D.; Comptroller of Patents, London; Registrar of Patents, Queensland; Registrar of Patents, Victoria; Registrar of Patents, Western Australia; W. E.

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The following Periodicals, Newspapers, &c. have been presented regularly by the respective Publishers, &c.:—

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| Accountant | Iron and Steel Trades Journal |
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| Arms and Explosives | Keefe's Civil Service Monthly |
| Awake | Labour Gazette |
| Bibby's Quarterly | Leaves of Healing |
| Bible Advocate | Liberty Review |
| Board of Trade Journal | Lichfield Mercury |
| British Temperance Advocate | Light |
| Builders' Reporter | Literary News |
| Canadian Gazette | Liverpool Catholic Times |
| Canadian Patent Office Record | Liverpool College Old Boys' Magazine |
| Cape Argus | Liverpool College Upper School Magazine |
| Chemical Trade Journal | Liverpool Courier (daily and weekly) |
| Child's Guardian | Liverpool Echo |
| Church Family Newspaper | Liverpool Express |
| Church Missionary Gleaner | Liverpool Institute Schools Magazine |
| Church Missionary Intelligencer | Liverpool Journal of Commerce |
| Church Monthly | Liverpool Mercury (daily and weekly) |
| Church Weekly | Liverpool Porcupine |
| Civil Service Aspirant | Liverpool Post (daily and weekly) |
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| Concord | Local Government Journal |
| Cowkeeper and Dairyman's Journal | London Argus |
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| Educational Times | Machinery Market |
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| Foresters' Miscellany | New Church Magazine |
| Free Life | New Ireland |
| Fruit-grower, Fruiterer, Florist, &c. | New Ireland Review |
| Gaelic Journal | Nonconformist Musical Monthly |
| Grocers' Review | Northampton Mercury |
| Guild Gazette | Oddfellows' Magazine |
| Gwalia | Official Journal of the Patent Office |
| Herald of Peace | Oil World |
| Herald of the Golden Age | Oxford Chronicle |
| Hereford Times | Paper Maker |
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| Inventors' Review | Positivist Review |
| Insurance Agent & Insurance Review | Present Truth |
| Irish Times | |
| Iron and Coal Trades Review | |

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 Vegetarian
 Vegetarian Messenger
 Western Daily Press
 Worcestershire Herald
 Zoophilist

PETER COWELL,

LIBRARIAN.

THE MUSEUMS.

The Director of Museums furnishes the Forty-Eighth Annual Report upon the CONDUCT and PROGRESS of the Museums.

I.—GENERAL.

THE FREE PUBLIC MUSEUMS comprise:—

(A) the DERBY MUSEUM, of which the nucleus was the collections bequeathed in 1851 to the City, by the Thirteenth Earl of Derby. It contains the *British Collections*, and the general *Zoological*, *Geological*, *Mineralogical*, and *Botanical* Departments, besides which there is an *Aquarium*, containing both Fresh and Salt Water Animals.

(B) the MAYER MUSEUM, the larger part of which was collected and presented to the Corporation in 1867, by Joseph Mayer, Esq., F.S.A. These collections are specially rich in (a) *Egyptian*, *Babylonian*, and *Assyrian Antiquities*; (b) *Mediæval European Ivories*, *Bronzes* and *Illuminated Manuscripts*; (c) the unrivalled *Brian-Faussett Anglo-Saxon Collection*; (d) the *Mather Miniatures*; and (e) the very important *Pottery Collections*, conspicuously rich in Wedgwood and Old Liverpool Wares. Associated with this Museum, as belonging more nearly to the subjects illustrated by it, though not forming to any large extent part of the Mayer Bequest, are (f) the *Ethnographical Collections*, chiefly of barbaric races.

The building, in which these collections are housed, was erected at the cost of the late Sir William Brown, in October, 1860.

The Exhibition Galleries are open free to the public, as under:—

During January, November, and December ..	from 10 to 4
„ February	„ 10 to 4-30
„ March and October	„ 10 to 5
„ April to September	„ 10 to 6

Also on Monday <i>Evenings</i> during January to	} „ 7 to 10
March, and October to December ...	

The Museums are closed on Sundays and Fridays (except the Fridays of Whit-, Easter and Christmas-Weeks) throughout the year, as well as on Christmas Day, and days of Public Fast and Thanksgiving.

The Museums were represented by the Director at the British Association, which met under the presidency of Sir William Turner, at Bradford, and also at the meeting of the Museums Association, at Canterbury, under the presidency of Dr. H. Woodward, F.R.S.

Parts 3 and 4 of Volume II. of the *Bulletin of the Liverpool Museums* were issued as a double number on the 20th January. It contained a paper by the Director on a Collection of Stone Implements in the Mayer Museum, made by Mr. W. H. Seton-Karr, in mines of the ancient Egyptians, discovered by him on the Plateaux of the Nile Valley: a short note on the Zoology of North Queensland, by Mr. H. C. Robinson: a description of a new species of *Aplonis*, by the Director: and the continuation of the Catalogue of the *Charadriiformes* in the Derby Collection. Part I. of Volume III. was issued on the 15th August, and contains preliminary descriptions of the new species obtained by the Sokotran Expedition. (a) The new *Micro-Lepidoptera* are described by Lord Walsingham, F.R.S., (b) the new Beetles, by Mr. C. J. Gahan, M.A., and (c) the new *Hymenoptera*, by Mr. W. F. Kirby, the Catalogue of the Lizard-tailed, the toothed, and the Ostrich-like Birds, and of the Tinamous and the Divers in the Derby Museum, completes the contents.

Natural History of Sokotra and Abd-el-Kuri.—The Report of the Sokotra Expedition undertaken by the British and Liverpool Museums is approaching completion, and it is hoped it will be issued early in the year. The examination and description of the large number of new species in both the fauna and flora, and the preparation of the necessary illustrations, have occupied a longer time than was anticipated, notwithstanding that the whole of the Director's spare time has been devoted to the work.

The Science Cabinets have been distributed to the various Elementary Schools in the City as in former years, and the appli-

cations for other specimens, mainly Natural History, for object lessons, and for the series of Technical Appliances on loan from the Museums have been well maintained.

The Director has much pleasure in testifying to the care and attention to duty given by all the members of the Staff.

II.—VISITORS.

Owing to the extensive structural alterations entailed by the introduction of electric lighting and the new system of heating and ventilation, it was found necessary, in order to safeguard the collections and to expedite the work, to close the Museums to the public for a considerable portion of the year. The attendance of visitors during the period the Museums were open was as follows:—

					1899.	1900.	
					(262 Days)	(Jan. 1st to May 3rd.)	(90 Days)
Total Visitors	...	...	...	...	310,482	...	95,041
Weekly Average	...	...	...	...	5,970	...	5,002
Daily Average	...	...	...	...	1,185	...	1,056

The attendance of school children during this period under the charge of teachers has been well maintained, a large number of children and teachers having availed themselves of the clause in the Education Code, whereby time devoted to instruction in Museums reckons as school attendance.

Persons desirous of employing the Museums for the purpose of research, reference or sketching may, by application to the Director, and on giving satisfactory references, obtain tickets enabling them to enter on Fridays, when there are special facilities afforded them for study. Tickets were issued, as usual, during the year (chiefly) to Artists and Students of Natural History, Osteology and Dental Anatomy, who have made extensive use of the collections, so far as the condition of the Galleries permitted, on the days the Museums were otherwise closed to the public.

The following, among others, have visited the Museums during the year for the purpose of inspecting the collections or other special object:—Consul E. D. Adamson, Iquitos; W. L. H. Duckworth, Cambridge; Sir Walter Buller; H. Maxwell Stuart; Dr. Durham,

Cambridge: Surgeon-Major Archer: Consul-General Ohlen, Montreal; David Boyle, Curator, Toronto Museum; Mrs. Grenfell, Oxford; and Prof. Ramsay Wright, University of Toronto.

III.—LECTURES.

Twelve Lectures were delivered by members of the Staff on Monday evenings, in the Theatre of the Museums, during the period from January to March inclusive. They were illustrated by specimens from the Museums and by lantern slides. The total attendance at the Lectures was 760.

The following is a list of the subjects:—

A course of seven Lectures on "Wild Flowers, and their Life-History" was given by Mr. William S. Laverock, M.A., B.Sc., Assistant in the Derby Museum, as follows:—

Jan. 8th.—"The Cornflower and the Daisy."

Jan. 15th.—"The Monkshood and Buttercup."

Jan. 22nd.—"The Rose and the Strawberry." I.

Jan. 29th.—"The Rose and the Strawberry." II.

Feb. 5th.—"The Rose, the Blackberry and the Raspberry."

Feb. 12th.—"The Rose, the Cherry and the Plum."

Feb. 19th.—"The Rose, the Apple and the Pear."

A course of five Lectures on "Chapters of Local History" was given by the Assistant-Curator of the Mayer Museum, Mr. P. Entwistle, as follows:—

Feb. 26th.—"The Early Record of the Liverpool Potteries."

Mch. 5th.—"The Sites of the Liverpool Potteries."

Mch. 12th.—"The Discovery of the Art of Printing on Pottery."

Mch. 19th.—"The Herculaneum Pottery."

Mch. 26th.—"The Mock Corporation of Sefton."

A. DERBY MUSEUM.

THE ENTRANCE HALL AND GALLERIES.

The changes in the arrangement of the collections, which will be radical, necessitated by the Extension buildings, which it is hoped will be ready for occupation before the end of the year, have not yet been finally decided upon.

ZOOLOGICAL DEPARTMENT.

(a) GENERAL.

During the past year there has been no change in the number or duties of the Staff. The work of cataloguing the Birds has been continued, and during the year the Lizard-tailed, the Toothed and the Ostrich-like Birds, and the Tinamous and the Divers have been completed and published. Progress has been also made in cataloguing other groups. Mr. Clubb has finished cataloguing the *Lacertilia*. The acquisitions to the Museums in this Department have been large, and include the greater portion of the Museum's share of the specimens collected on the Expedition to Sokotra. The total acquisitions number close upon 4,500 specimens, and much time is consequently occupied in their identification (so far as it is necessary), incorporation and registration.

Collecting apparatus and boxes, with preservative fluids, were fitted up and very kindly taken charge of by the Yellow Fever Expedition to Para for the preservation of such specimens as the members hoped they might be able to collect: also by Mr. E. D. Adamson, H.B.M. Consul at Iquitos.

The structural alterations, made necessary by the new system of heating and ventilation, has entailed a large amount of work in seeing to the careful removal and conservation of specimens from the numerous cases, which had to be removed to enable the openings for the ventilation inlets and outlets to be constructed.

The series of photographic enlargements, illustrating the various races of mankind, still continues to grow, and there are now upwards of 125 of these anthropological photographs. Further copies have been presented to the British Museum and Cambridge University, where they are highly appreciated.

(b) ARRANGEMENT.

The same general arrangement of the collections has been maintained throughout the year, and in view of the Extension, when much change and re-arrangement will be involved, little has been done beyond keeping the collections, as at present exhibited, in proper order.

(c) CONSERVATION.

All the collections on exhibition have been periodically examined, dusted and kept free from moth or other pest. The store cabinets and tanks, containing specimens preserved in fluid, have also been systematically gone over for the purpose of renewing the spirit or other preservative. The store cabinets have also had constant attention, the entomological collections especially requiring frequent examination.

The work of reducing the duplicate specimens of mounted birds and forming cabinet skins of them for the study collection has been continued.

(d) LOANS.

The following loans of Museum specimens for purposes of study were made during the year:—

Seven Eagle skins were lent to Dr. Bowdler Sharpe, British Museum.

Thirty specimens of Larks, twelve species of *Lanius*, thirty-one species of *Parus*, five Crows, and one Swift (type), were lent to the Hon. Walter Rothschild, Tring, Herts.

(e) PRESENTS.

During the year the Museum Collections have been enriched by a large number of presentations, of which the following deserve special mention:—

A mounted specimen of the American Bison (*Bos americanus* (Gm.)) was presented by Christopher J. Leyland, Esq., Haggerston Castle, Beal, Northumberland.

The skin of a Lion (*Felis leo*, Linn.) was presented by Lord Delamere.

A collection of Sandwich Island Birds was presented by Prof. Newton, Cambridge, on behalf of the British Association and Royal Society Joint Committee.

A large number of West African specimens has been received from Mr. Ridyard, of the s.s. "Niger," or through his agency, among which several specimens of Bats are particularly interesting.

(f) EXCHANGES.

Skins and skulls of *Papio hamadryas* (Linn.); *Felis geoffroyi*. D'Orb. ♀: *Dolichotis patagonica* (Shaw) ♂; *Lagidium peruanum*, Meyen, ♀ and *Tolypeutes conurus*, Is. Geoffr. ♂ and ♀ were received in exchange from Prof. Giglioli, Florence, for a set of Egyptian Flint Implements.

A Monkey (*Cercopithecus nictitans*, (Linn.)) ♀, juv.; Serval Cat (*Felis serval*, Linn.) ♂, and a Jackal (*Canis aureus*, Linn.) were received in exchange from W. Cross, naturalist, for living specimen of the Civet Cat (*Viverra civetta*, Schreb.).

Skin and skull of *Conepatus inca*, Thos., were received in exchange from Mr. Oldfield Thomas, British Museum, for a living specimen of Mongoose which has proved to be new to science and will be described in the *Bulletin of the Liverpool Museums*, Vol. III., No. 2, by Mr. De Winton, as *Herpestes naso*.

Two Electric Cat-fish (*Malapterurus electricus*, Linn.) (one living) were given to Professor Wm. Stirling, Owens College, Manchester, for a subsequent exchange.

A Mud-fish (*Protopterus annectens*, Owen) contained in mud block was sent to Prof. Ramsey Wright, Toronto.

Six Siamese "Fighting Fish" (*Betta pugnax*, Cant.), were received in exchange for six Walking Fish (*Periophthalmus koelreuteri*, Pall.), from Cap. Vipan.

Several Walking Fish (*Periophthalmus koelreuteri*, Pall.), a Monkey, and a Bird (all living) were sent to the Zoological Gardens, London.

A collection of mammal skins and skulls representing eighteen species were received as an exchange.

(g) ACQUISITIONS.

INVERTEBRATES—

Coelenterata. (Zoophytes, Sea Anemones, etc.).

One piece of fossiliferous rock containing *Lithostrotion irregulare*, &c., from Halkyn Quarries, Rhydymwyn, N. Wales (D. 26. 2. 1900. 94) collected and presented by Mr. F. Hoyer.

Tube containing Sea Anemones, &c., prepared for histological work, chiefly from Naples (D. 26. 2. 1900. 96); presented by Mr. Lionel J. Picton.

Two Jelly-fishes (*Rhizostoma pulmo*, Linn.), collected on Hoylake shore 26. 10. 96. by Mr. William S. Laverock along with others for experiments in fixing, and now referred to register of this year (D. 13. 3. 1900. 1).

Two Physalias (*P. pelagica*, Esch.), from Batanga, W. Africa (D. 29. 5. 1900. 1); presented by Dr. Newman H. D. Cox *per* Mr. A. Ridyard.

Gorgonid (*indet.*) from West Bay, Fernando Po, and a piece of a Gorgonid (*indet.*) from Bata, W. Africa (D. 24. 9. 1900. 43 and 44); presented by Mr. A. Ridyard.

Vermes. (Worms, etc.).

Fifty-six tubes containing various marine Worms, prepared for histological work, chiefly from Naples (D. 26. 2. 1900. 97-117); presented by Mr. Lionel J. Picton.

Anatomical preparation of Leech (*Hirudo medicinalis*, Linn.) (D. 21. 3. 1900. 8); purchased.

Six small earthworms from Hoylake (D. 2. 4. 1900. 1); collected and presented by the Director of Museums.

A mass of Nematodes (*sp. indet.*) taken from the thorax of a male Rhea, B. 28. 8. 99. 71, and a Nematode from an air-sac in thorax of another male Rhea, B. 28. 8. 99. 71 (D. 31. 12. 99. 143 and 144). (Omitted from last report).

Arthropoda.

Crustacea (Crabs, Lobsters, etc.).

One Hermit-crab (*indet.*) in a shell of *Strombus* sp. from Batanga, W. Africa (D. 26. 2. 1900. 91); presented by Mr. John Newberry *per* Mr. A. Ridyard.

Eight tubes containing various Crustaceans and parts of Crustaceans, prepared for histological work, chiefly from Naples (D. 26. 2. 1900. 118-126); presented by Mr. Lionel J. Picton.

Anatomical preparations of *Cancer pagurus*, Linn., and *Astacus fluviatilis*, Rond., (D. 21. 3. 1900. 6 and 7); purchased.

Two Crustaceans (*indet.*) from Secondee (D. 28. 11. 1900. 1); collected and presented by Mr. John H. Holland.

Tracheata. (Insects, Spiders, etc.).

Eighty-one Beetles, seven other Insects, and one Arachnid (*spp. indet.*) from Bata, W. Africa (D. 26. 2. 1900. 1-9): presented by Mr. Alfred Ford, *per* Mr. Ridyard.

Rock Scorpion (*Buthus ajer*, Linn.) from Cameroon, W. Africa (D. 26. 2. 1900. 92): presented by Mr. A. Ridyard.

Two tubes containing Insect Larvæ and numerous Collembola, chiefly from Naples (D. 26. 2. 1900. 127 and 129): presented by Mr. Lionel J. Picton.

Anatomical preparations of *Dytiscus marginalis*, Sturm., and the Larva of *Bombix mori*, Linn. (D. 21. 3. 1900. 1-2): purchased.

Three Beetles and a two-winged Fly (*indet.*) from Hoylake (D. 2. 4. 1900. 2-5): collected and presented by the Director of Museums.

One Spider (*Mygale* sp.), one Phrynos, two Centipedes, one Millepede (*Julus* sp.), two Galleyworms (*Polydesmus* sp.), one Stick Insect, one Grasshopper, one Cicada, one Neuropteran, one Hymenopteran, four Moths and a Larva, one Weevil and four other Beetles (*spp. indet.*), from Batanga, W. Africa (D. 29. 5. 1900. 3-21): presented by Dr. Newman H. D. Cox, *per* Mr. A. Ridyard.

One Stick Insect (*indet.*) from Bata, W. Africa (D. 29. 5. 1900. 22): presented by Mr. J. Newberry, *per* Mr. A. Ridyard.

One White Ants' Nest (*indet.*) from the West coast of Africa (D. 29. 5. 1900. 23): presented by Mr. Fry.

One Spider (*indet.*) found alive on Ethnographical specimens from Landana, S.W. Africa (D. 31. 5. 1900. 1).

One Beetle (*indet.*) found alive in a parcel of books in the Free Public Library (D. 23. 6. 1900. 1): presented by one of the Library staff.

Saw-fly (*indet.*) from American Larch wood in a coal mine, Wigan. (D. 23. 7. 1900. 1): presented by Mr. Ralph Unsworth.

Cockchafer from Prestatyn, N. Wales (D. 9. 7. 1900. 1): collected and presented by Mr. P. Entwistle.

Six wood-boring Beetles, four other Beetles, one Ichneumon, three Spiders, and one Millipede (*spp. indet.*) from a timber yard, Bootle (D. 16. 7. 1900. 1-8): presented by Mr. Wm. Swan.

Three Locusts (*indet.*) that flew on board the "Orizaba" in the Red Sea (D. 27. 8. 1900. 1): presented by Lieut. F. O. Simpson, R.N.

Larva of Privet Hawk Moth (*Sphinx ligustri*, L.) from Bridgend, Glamorgan, S. Wales (D. 24. 9. 1900. 1): collected and presented by Mr. Thos. G. Entwistle.

Larva of Death's Head Moth (*Acherontia atropos*, L.) from Anglesey (D. 24. 9. 1900. 2); presented by Dr. Williams.

Longicorn Beetle (*indet.*) from mahogany from W. Africa (D. 24. 9. 1900. 3); presented by Mr. Chas. Evans.

A collection of Insects, comprising forty-six Butterflies, fifty-five Moths, and two Neuroptera (*indet.*) from Stansfield, Suffolk (D. 24. 9. 1900. 4-42): collected and presented by Mr. J. W. Cutmore.

About three dozen Scorpions (*indet.*) from the South of Hungary (D. 15. 10. 1900. 4): presented by Dr. Albert v. Stephani.

A number of Beetles (*Dermestes culpinus*, Walk.) infesting raw Tobacco leaf and a specimen of the Tobacco affected (D. 15. 10. 1900. 5): presented by Alderman Maxwell H. Maxwell, Junr.

Six Centipedes, two Millipedes, nine Spiders, two groups of Spiders' eggs, two Chigoes, three Grasshoppers, one "Mangrove fly," four Hemiptera, several Hymenoptera with nests and parts of nests, two larvæ, sixteen Beetles and about fifty "Springtails" (*spp. indet.*) from Old Calabar (D. 28. 11. 1900. 2-38): collected and presented by Mr. John H. Holland.

One Spider (*indet.*) found in a yacht from Rio Janeiro (D. 29. 11. 1900. 1); collected and presented by Mr. F. Hibbert.

Cockroach (*indet.*) found in a case of Bananas (D. 29. 11. 1900. 2); presented by Mr. Thos. A. Grimes.

Six Insects from Hoylake:—Beetle, *Geotrupes* sp.: four Wasps (*Mellinus* (?) *sabulosus*): a two-winged fly, *Musca*, sp.. food of the Wasp (D. 31. 12. 1900. 1-3): collected and presented by the Director of Museums.

Two preparations, in fluid, showing the metamorphosis of *Myrmecoleon formicarius* (Linn.) and of *Doryphora decemlineata* (D. 31. 12. 1900. 4 and 5): brought from the Store Room, with no reference number and now referred to Register of this year.

One Centipede, one Beetle and one Tick (*spp. indet.*) from Brazil? (D. 31. 12. 99. 140-142): presented by Mr. E. Marwood. (Omitted from last Report.)

A collection of Insects from Sokotra and Abd-el-Kuri, containing specimens as follows:—of Lepidoptera, about 500 specimens, representing 72 species: Orthoptera, 28 specimens, representing 16 species: Coleoptera, 150 specimens, representing 27 species. The specimens of Hymenoptera, Hemiptera and Micro-lepidoptera have not yet been received from the specialists engaged in working them out. Among the above the following species are new to science:—Lepidoptera, *Charaxes balfouri*, Butl. (♂ new): *C. velox*, Grant: *Tarucus socotranus*, *T. quadratus*, Grant: *Belenois anomala* (Butl.) (♂ new); *Agrotis brachypecten*, Hmps. n.; *Taracha melana*, Hmps. n.: *Cerocala sokotrensis*, Hmps. n.; *Hyperythra ædiphlebia*, Hmps. n.; *Scotosia rubritincta*, Hmps. n.; *Cidaria holophæa*, Hmps. n.; *Craspedia fulvicolor*, Hmps. n.; *Hypogryphia pulveralis*, Hmps. n.; *H. flamminalis*, Hmps. n. and *Stenia grisealis*, Hmps. n. Orthoptera:—*Loboptera peculiaris*, Burr.: *Teddia dioscoris*, Burr.; *Truxalis ensis*, Burr. and *Dissosteira forbesii*, Burr. Coleoptera:—*Alaus sulcicollis*, Gahan; *Rhytidonota exigua*, Gahan; *R. socia*, Gahan; *Eusyntelia opacicollis*, Gahan: *Erie fusca*, Gahan: *Idactus granti*, Gahan; *Erycia socotrana*, Gahan; *Melyris insularis*, Gahan and *Histeromorphus undatus*, Gahan. (D. 31. 12. 1900. 6-77 and 130-176); collected on the Corporation's Expedition to Sokotra. For fuller particulars and complete lists of species see the Report on the Expedition (Natural History of Sokotra and Abd-el-Kuri), now in the press.

Mollusca. (Shells, etc.).

One Cuttle-fish (*Sepia* sp.), from Batanga, W. Africa (D. 26. 2. 1900. 90); presented by Mr. John Newberry, *per* Mr. A. Ridyard.

Shell (*Crepidula dilatata*, Lam.), taken off a Blue Point Oyster (D. 26. 2. 1900. 93); presented by Mr. R. M. Adam.

Anatomical preparations of *Sepia officinalis*, Linn., *Helix pomatia*, Linn., *Anodonta anatina*, Linn. (D. 21. 3. 1900. 3-5); purchased.

Two Land Snails (*Helix nemoralis*, Linn.) from Hoylake (D. 2. 4. 1900. 6); collected and presented by the Director of Museums.

Two shells of *Pinna* (*indet.*) and two shells of the Paper Nautilus (*Argonauta* sp.) (D. 15. 10. 1900. 1-3): presented by Miss M. E. Whittle.

A collection of shells, principally land and fresh-water species from Sokotra and Abd-el-Kuri, containing over 1,000 specimens representing 52 species, of which the following are new to science:—*Buliminus* (*Achatinelloides*) *dahamensis*, Smith: *B. homhilensis*, Smith: *B. laccior*, Smith: *B. fusco-apicatus*, Smith: *B. paucillus*, Smith: and *Lithidion forbesianum*, Smith. (D. 31. 12. 1900. 78-129). Collected on the Corporation's Expedition to Sokotra. For fuller particulars and complete lists of species, see the Report of the Expedition (Natural History of Sokotra and Abd-el-Kuri), now in the press.

Brachiopoda.

Four pieces of fossiliferous rock containing *Productus giganteus*, &c., from Halkyn Quarries, Rhydymwyn, N. Wales (D. 26. 2. 1900. 94-95); collected and presented by Mr. F. Hoyer.

CHORDATES.

Fishes.

Thirteen specimens of *Amphioxus*, two adult Lampreys, and one young Lamprey, prepared for histological work, chiefly from Naples (C. 26. 2. 1900. 1-2); presented by Mr. Lionel J. Picton.

Rostrum of Saw-fish (*Pristis* sp.) from Ambrizette, W. Africa (C. 26. 2. 1900. 3); presented by Mr. A. Ridyard.

Electric Cat-fish (*Malapterurus electricus*, Linn.), from W. Africa (C. 26. 2. 1900. 4); presented by Mr. A. Ridyard. 2. 4. 98.: died in the Museum Aquarium 19. 1. 1900, and now referred to Register of this year.

Dace (*Leuciscus vulgaris*, Gunth.) (C. 13. 3. 1900. 1); presented Mr. Thomas Gardner.

Anatomical preparations of *Tinca vulgaris*, Cuv., *Esox lucius*, Linn., *Torpedo marmorata*, Risso (C. 21. 3. 1900. 2-4): purchased.

Sole, diseased (C. 24. 4. 1900. 1): died in the Museum Aquarium.

Polypterus (*Polypterus retropinnis*, Blgr.), from Boma, R. Congo, W. Africa (C. 29. 5. 1900. 2); presented by Mr. J. H. Greenhalgh, *per* Mr. A. Ridyard.

Thirty-four Walking Fish (*Periophthalmus kalbrenteri*, Pall.), living, from Rio del Rey, W. Africa (C. 29. 5. 1900. 3); presented by Mr. Forman, *per* Mr. A. Ridyard.

Twelve blocks of mud containing Mud-fish (*Protopterus annectens*, Owen), from W. Africa (C. 29. 5. 1900. 4); presented by Mr. A. Ridyard.

Gar-pike (*Belone vulgaris*, Flem.) from the Queen's Dock, Liverpool (C. 29. 5. 1900. 5); presented by Mr. R. Reynolds.

Skeleton of Ribbon Fish (*indet.*) from New Zealand (C. 27. 8. 1900. 1); purchased.

King Fish (*Lampris luna* (Gm.)) from the Pentland Firth (C. 21. 9. 1900. 1); presented by Messrs. Pratt, Ellis & Co.

Eleven Electric Cat-fish (*Malapterurus electricus*, Linn.), seven of them living, from Rio del Rey, W. Africa (C. 24. 9. 1900. 2); presented by Mr. Forman, *per* Mr. A. Ridyard.

Rostrum of Saw-fish (*Pristis* sp.) from W. Africa (C. 24. 9. 1900. 3); presented by Mr. S. Smith, *per* Mr. A. Ridyard.

Six Siamese "Fighting Fish" (*Betta pugnax*, Cant.) (C. 26. 9. 1900. 1); received in exchange. (See page 39).

Sixteen young Fishes (*indet.*) from Okuni, Cross River, N. of Old Calabar; one Fish (*Pentanemus quinquarius*, Linn.), and another Fish (*indet.*) from Secondee (C. 28. 11. 1900. 5-8); collected and presented by Mr. John H. Hollaud.

Three Black Bass and three Spiegel Carp, living (C. 21. 12. 1900. 1 and 2); purchased.

Mirror Carp (*Cyprinus carpio*, Linn.), living (C. 31. 12. 1900. 1), from lake in Newsham Park; presented by Mr. Arthur Jones.

Amphibians.

Three anatomical preparations of *Rana fortis* (C. 21. 3. 1900. 1); purchased.

Tree Frog (*indet.*) from Batanga, W. Africa (C. 29. 5. 1900. 1) ; presented by Dr. Newman H. D. Cox, *per* Mr. A. Ridyard.

Collection of Batrachian remains from the Middle Miocene, La Grive, St. Alban (Isère, France) (C. 29. 5. 1900. 6-8) ; purchased.

One Frog (*indet.*), one Tree Frog (*indet.*), two Toads, and thirteen young Toads (*indet.*), from Old Calabar (C. 28. 11. 1900. 1-4) ; collected and presented by Mr. John H. Holland.

Reptiles.

Lizard (*Varanus niloticus*, D. & B.) *jur.* : three Snakes (*indet.*), and the head of a Snake (*indet.*) from Cameroon, and a Snake (*indet.*) from Gaboon (B. 26. 2. 1900. 13-17) ; presented by Mr. A. Ridyard.

Anatomical preparations of *Emys europæa* (Schneid.), *Lacerta viridis* (Linn.), *Tropidonotus natrix* (Gesn.), *Pelias berus*, Linn. (B. 21. 3. 1900. 3-6) ; purchased.

Adder (*Pelias berus*, Linn.), from North Wales (B. 23. 4. 1900. 4) ; presented by Mr. Wm. Swan.

Pond Tortoise (*indet.*), living, and three young Crocodiles (*indet.*) living, from West Africa (B. 29. 5. 1900. 2-3) : presented by Mr. Smith, *per* Mr. Ridyard.

Chameleon (*indet.*) and Snake (*indet.*), from Batanga, W. Africa (B. 29. 5. 1900. 6 and 7) ; presented by Dr. Newman H. D. Cox, *per* Mr. Ridyard.

Collection of Reptilian remains from the Middle Miocene, La Grive, St. Alban (Isère, France) (B. 29. 5. 1900. 8-11) ; purchased.

Limbless Lizard (*Monopeltis koppenfelsii* (Strauch.)), from Batanga, W. Africa (B. 23. 7. 1900. 1) ; presented by Dr. Newman H. D. Cox, *per* Mr. Ridyard.

Young Crocodile (*indet.*) living, from W. Africa (B. 23. 7. 1900. 2) ; presented by Mr. T. W. McQuistan.

"Shell" of Tortoise (*indet.*), from Accra, W. Africa (B. 24. 9. 1900. 3) ; presented by Dr. J. Edward Mettle, *per* Mr. Ridyard.

Chameleon (*indet.*), one Snake (*Calabaria reinhardti* (Schleg.)), and another (*indet.*) from Okuni, Cross River, N. of Old Calabar, and one egg of a Crocodile (*indet.*); two Chameleons (*Rhampholeon spectrum* (Buch), and *Chameleon cristatus*, Stutch.): one young Varanus (*Varanus niloticus*, D. & B.): three Agamas (*Agama colonorum*, Daud.): seven Lizards (*indet.*); one Amphisbænid (*Amphisbæna leucura*, D. & B.), and three Snakes (*indet.*), from Old Calabar (B. 28. 11. 1900. 1-15): collected and presented by Mr. John H. Holland.

One hundred and seventy-nine specimens representing eighteen species collected by the Corporation's Expedition to Sokotra and Abd-el-Kuri, 1898-9:—*Pristurus insignis*, Blanford, 11; *P. rupestris*, Blanford, 52; *Phyllodactylus riebeckii* (Peters), 4; **P. trachyrhinus*, Bouleng., 1; *Hemidactylus homolepis*, Blanford, 6; **H. pumilio*, Bouleng., 5; **H. granti*, Bouleng., 19; *H. turcicus*, Linn., 3; **H. forbesii*, Bouleng., 6; **H. oxyrhinus*, Bouleng., 7; *Pachycalamus brevis*, Günth., 15; *Eremias guttulata*, Licht., 6; *Mabuia socotrana* (Peters), 9; **Parachalcides socotranus*, Bouleng., 13; *Chameleon monachus*, Gray, 8; **Glauconia filiformis*, Bouleng., 2; **G. macrura*, Bouleng., 10; *Ditytrophis rivar*, Günth., 2. The species here marked with an asterisk are new to science. (B. 31. 12. 1900. 140-157). For fuller particulars see the Report of the Expedition (Natural History of Sokotra and Abd-el-Kuri) now in the press.

Birds.

The species indicated by an asterisk are new to the collection.

Thirteen Birds, including *Pyrrherodias purpurea* (Linn.); *Numenius arquatus* (Linn.); *Bubulcus lucides*, Rafin.; ? *Sterna fluvialis*, Neum.; *Haleyon senegalensis* (Linn.); **Merops* sp., from W. Africa (B. 26. 2. 1900. 1-12); presented by Mr. G. W. Stokes, per Mr. A. Ridyard.

Egg of a Tinamou (*Tinamus* sp.) (B. 17. 3. 1900. 1).

Anatomical preparations of *Sturnus vulgaris*, Linn.; *Columba risoria* (B. 21. 3. 1900. 1-2); purchased.

Seven Bird skins:—*Pitta lorice*, 2 ♂ and 1 ♀; *Edoliisoma melas*, Salv. ♂ and ♀ from S.E. New Guinea, and *Columba mada*, Hartert, ♂ and ♀, from Mt. Mada (B. 23. 4. 1900. 1-3); purchased.

Angolan Vulture (*Gypohierax angolensis*, Gm.) living, from W. Africa (B. 29. 5. 1900. 1); presented by Mr. Smith, per Mr. Ridyard.

Bird's Nest (*indet.*) from Batanga, W. Africa (B. 29. 5. 1900. 1): presented by Dr. Newman H. D. Cox, *per* Mr. Ridyard.

Tern (*indet.*) caught off Assini (B. 29. 5. 1900. 5): presented by Mr. A. Ridyard.

Collection of Bird remains from the Middle Miocene, La Grive, St. Alban (Isère, France) (B. 29. 5. 1900. 12-17): purchased.

Bird's Nest—Rook?—(B. 25. 6. 1900. 1.): presented by Mr. G. Dickinson.

Four dissections of the wing of a bird (B. 25. 6. 1900. 2): purchased.

House Martin (*Chelidon urbica* (Linn.)) found dead near the Wellington Monument, Liverpool (B. 26. 6. 1900. 1): purchased.

Cassowary (*Casuarius* sp.) (B. 23. 7. 1900. 3): purchased.

Seven Bird Skins:—**Trichoglossus noronhaiensis*, subsp. *septentrionalis*, Robinson, ♂ and 2 ♀; **Dacelo gigas*, subsp. *minor*, Robinson, 3 ♂; *Prionodura newtoniana*, De Vis, ♂, from Cooktown, Queensland (B. 23. 7. 1900. 4-6): purchased.

Five nests of British Birds:—Green-finch, Linnet?, Chaffinch, Lesser White-throat and Sky-lark from Stansfield, Suffolk (B. 27. 8. 1900. 1-5): presented by Mr. J. W. Cutmore.

Collection of twenty-six Bird skins and one bird's nest from the Sandwich Islands:—*Chloridops kona*, S.B.W. ♀; *Loxops aurea*, Sharpe, ♂; *L. coccinea*, Cab., ♂ and ♀ *jur.*; *Chrysomitridops caeruleirostris*, S. Wil., ♂; *Orcomyza flammea*, S. Wil., ♂, ♀ and nestling; *O. bairdi*, Stejn, ♂ *imm.*; *Himatione chloris*, Cab., ♂; *H. chloridoides*, S.B.W., ♂; *H. montana*, S.B.W., ♂; *H. virens*, Sharpe, ♂; *H. kalaana*, S.B.W., ♂; *Palmeria dolii*, Roths., ♂ and ♂ *jur.*; *Hemignathus wilsoni*, (Roths.), ♂ *jur.*; *H. affinis*, Roths., ♂ *imm.*; *H. obscurus*, Peale, ♀; *H. procerus*, Cab., ♂ and ♀; *Chasiempis sclateri*, Ridgw., ♂ and ♀; *C. gayi*, S.B.W., ♂; *C. sandricensis*, Cab., ♂ *jur.*; *C.* sp., ♀; nest of *Chasiempis* sp. (B. 27. 8. 1900. 6-25): presented by the Royal Society and British Association Joint Committee for the Zoology of the Sandwich Islands, *per* Prof. Newton, Cambridge.

A collection of fifty-seven Birds, mostly as skins from Arabia:—*Melierax polizonus* (Rupp.): *Lophoceros nasutus* (Linn.), ♂; *Anthus trivialis* (Linn.): *Merops cyanophrys* (Cab. & Heine). 3 ♂, 2 ♀ and 2 not sexed; *Upupa epops*, Linn., ♂; *Caprimulgus inornatus*, Heugl: *Cercotrichas melanoptera* (H. & E.) 2 ♂ ! and 3 not sexed; *Erythacus golzii* (Cab.) 2 ♂; *Aedon familiaris* (Méntér.) ♂, ♀ and 1 not sexed; *Saricola isabellina* (Cretzschm.); *Cisticola cisticola* (Temm.); *Tringoides hypoleucus* (Linn.) ♀: one Hawk, three Bee-eaters, two Kingfishers, and twenty-seven other specimens, all *indet.* (B. 27. 8. 1900. 26-54): purchased.

Right Tibio-tarsus of Moa (*indet.*) from Waikari, Canterbury, New Zealand (B. 24. 9. 1900. 1): purchased.

Bird (*indet.*) from Ukaka, Eloby, W. Africa (B. 24. 9. 1900. 2); presented by Mr. W. G. Stokes, *per* Mr. Ridyard.

Two Bird skins:—*Ptilorhis victoriæ*, Gould, ♂, and *Elurædus maculosus*, Ramsay, ♀, from N. Queensland (B. 17. 12. 1900. 1 and 2): presented by Mr. H. C. Robinson.

Dabchick (*Trachycolaptes fluvialtilis*), ♀, from Meols, Cheshire (B. 17. 12. 1900. 3); presented by Mr. J. Silcock, *per* Mr. H. Moore.

Scoter-duck (*Edemia nigra*, Flem.), ♂, from the West of Ireland (B. 17. 12. 1900. 4); purchased.

Great Shear-water (*Puffinus major*, Fab.), ♀, from the Atlantic (B. 17. 12. 1900. 5); purchased.

Sixteen Bird skins:—*Scissirostrum dubium*, Lafr., 1 not sexed, from Celebes; *Xantholæma* sp. ♂, from Ceylon; *Siva strigula*, Hodgs., 1 not sexed from Sikkim; *Myiobius nœvius*, ♂, from Roraima; *Oxygogon guerini* (Boiss.), ♂, from New Granada: one *Cyanocorax* sp. and ten other specimens, all *indet.* (B. 17. 12. 1900. 6-19): purchased.

Collection of Birds' Eggs, chiefly Australian, comprising one hundred and thirty-nine species (B. 31. 12. 1900. 1-139); purchased.

Collection of Birds from Sokotra, containing about 200 specimens, representing 40 species, of which the following are new to science:—*Passer hemileucus*, Grant and Forbes; **Fringillaria insularis*, Grant and Forbes; **F. socotrana*, Grant and Forbes; **Scops socotranus*, Grant and Forbes, and **Phalacrocorax nigrogularis*, Grant and Forbes

(B. 31. 12. 1900. 158-197): collected on the Corporation's Expedition to Sokotra. For fuller particulars and complete lists of species see the Report on the Expedition (Natural History of Sokotra and Abd-el-Kuri), now in the press.

Mammals.

Weasel (*Mustela vulgaris*, Linn.), ♀, from High Legh, Cheshire (A. 29. 1. 1900. 1); presented by Mr. John G. Gilbert.

Human Skull minus the lower jaw and the lower jaw of another from the interior of Terra del Fuego (A. 29. 1. 1900. 2. and 3); presented by Captain W. Kelly, *per* Mr. H. C. Beasley.

Civet Cat (*Viverra civetta*, Schreb.), living, from Cameroon, W. Africa (A. 26. 2. 1900. 1); presented by Mr. S. Smith, *per* Mr. Ridyard.

Skin of Genette Kitten (*Genetta* sp.) from Fernando Po., W. Africa (A. 26. 2. 1900. 2); Fœtus of Hippopotamus (*Hippopotamus* sp.) from Ambrizette, W. Africa (A. 26. 2. 1900. 4); presented by Mr. Ridyard.

Skull of young Elephant (*Elephas africanus*, Blumb.) from Batanga, W. Africa (A. 26. 2. 1900. 3); presented by Mr. H. C. Powell, *per* Mr. Ridyard.

Bat (*Epomophorus* (*Hypsignathus*) *monstrosus* (Allen)), ♀, with young one: one Rat, ♂ (*indet.*), two Rats, ♀, and young (*indet.*) from Eloby, W. Africa (A. 26. 2. 1900. 5-7): collected and presented by Mr. G. W. Stokes, *per* Mr. Ridyard.

Monkey (*Cercopithecus nictitans* (Linn.), ♀, *jr.*: Serval (*Felis serval*, Linn.) ♂; Jackal (*Canis aureus*, Linn.), ♀, (A. 17. 3. 1900. 1-3): received in exchange. (See page 39).

Human Skull of "New Race" age from Hierakonopolis, Egypt (A. 19. 3. 1900. 1); skin and skull of *Hylobates mülleri*, Martin, ♀, from Baram District, Sarawak (A. 19. 3. 1900. 2); received in exchange.

Three anatomical preparations of *Cavia cobaya*, Schreb. (A. 21. 3. 1900. 1); purchased.

Two Lesser Horse-Shoe Bats (*Rhinolophus hipposiderus*, Bechst.), ♂, from a cave at Glynn Ceiriog, Denbighshire (A. 23. 4. 1900. 1); presented by Mr. T. A. Cowan,

Collection of Bones (*indet.*) and a few of the bony plates of a (*Glyptodon* (*indet.*) from Rio Negro, Uruguay (A. 23. 4. 1900. 2-11); presented by Mr. W. P. Steer.

Young Chimpanzee (*Anthropopithecus niger* (Linn.)), ♀, (A. 29. 5. 1900. 1); presented by Mr. Holme Seward.

Head of Reed-buck (*Cervicapra arundineum*), mounted, from Beira, S. E. Africa (A. 29. 5. 1900. 2): presented by Mr. Rowland Ward.

Young Antelope (*Cephalophus maxwelli* (H. Smith)), ♀, living, from Fernando Po; Skin of a Genette kitten (*Genetta*, sp.) from Fernando Po (A. 29. 5. 1900. 3 and 4): presented by Mr. J. D. Maysmoor, *per* Mr. Ridyard.

Malbrouck Monkey (*Cercopithecus cynosurus* (Scop.)), living, from Ambrizette, W. Africa; Moustache Monkey (*C. cephus* Linn.), living, from Landana, W. Africa; Hocheur Monkey (*C. nictitans* (Linn.)), living, from Sette Kama, W. Africa (A. 29. 5. 1900. 5-7); presented by Mr. Ridyard.

Fœtus of an Ungulate (*indet.*); Horseshoe Bat (*Rhinolophus blasii*, Peters)?; Fruit Bat (*Epomophorus comptus*, Allen), ♂, from Batanga, W. Africa (A. 29. 5. 1900. 8-10); presented by Dr. Newman H. D. Cox, *per* Mr. Ridyard.

Three Rats (*indet.*); one Fruit Bat (*indet.*); one Galago (*indet.*) from Ukaka, Eloby (A. 29. 5. 1900. 11-13); presented by Mr. W. G. Stokes, *per* Mr. Ridyard.

Collection of Mammal Remains from the Middle Miocene, La Grive, St. Alban (Isère, France) (A. 29. 5. 1900. 14-33): purchased.

Two Golden Moles (*Chrysochloris trevelyani*, Gunth.), from Pirie Forest, S. Africa (A. 29. 5. 1900. 35 and 35); purchased.

Skin and skull of *Conepatus inca*, Thos., from Lima, Peru (A. 6. 7. 1900. 1); received in exchange. (See page 39).

Skin and skull of "Flying" Phalanger (*indet.*) (A. 6. 7. 1900. 2).

Skull of one of the *Boridæ* (*indet.*) (lower jaw wanting), from Batanga, W. Africa (A. 23. 7. 1900. 1): presented by Dr. Newman H. D. Cox, *per* Mr. Ridyard.

Skins and skulls of *Papio hamadryas* (Linn.). ♂, from N.E. Africa; *Felis geoffroyi*, D'Orb. ? ♀: *Dolichotis patagonica* (Shaw) ♂: *Lagidium peruanum*, Meyen., ♀: *Tolypeutes conurus*, Is. Geoffr., ♂ and ♀; from Rioja, Rep. Argentina (A. 27. 8. 1900. 1-5): received in exchange. (See page 39).

A collection of fifty-one specimens from Arabia:—Four skins and three skulls of *Gerbillus pæcilops*, Y. and T., ♂, 2 ♀ and one not sexed; skin and skull of *Arvicanthus variegatus*, Licht., ♀: skins of three Rodents (*indet.*): skull of Rodent (*indet.*): *Gerbillus pæcilops*, Y. and T.: two Rodents (*indet.*): head of a Rodent (*indet.*): skins and skulls of *Nyctuis* sp., 3 ♂: skin of *Scotophilus schliiffeni*, Pet., ♂; three skins of Bat (*indet.*): thirty Bats, representing four species (*indet.*): skull of Bat (*indet.*): two skins of Badger (*indet.*): (A. 27. 8. 1900. 6-24): purchased.

Skin of a Bison (*Bos americanus* (Gm.)) (A. 27. 8. 1900. 25): presented by Mr. Christopher J. Leyland.

Skin of a Lion (*Felis leo*, Linn.) from Somaliland (A. 27. 8. 1900. 26); presented by Lord Delamere.

Wallaby (*Sp. indet.*), ♀ (A. 24. 9. 1900. 1); purchased.

Cast of right hand of young Chimpanzee from a female named 'Daisy,' formerly living in the Zoological Gardens London (A. 24. 9. 1900. 2): presented by the Trustees of the British Museum.

Skull of "Bush Cow" (*indet.*): pair of Horns of Koodoo?: two pairs of Horns of an Antelope (*indet.*) from Cameroon, W. Africa (A. 24. 9. 1900. 3-5): presented by Mr. S. Smith, *per* Mr. Ridyard.

Two molar teeth of African Elephant from Cameroon: Bat (*Nycteris macrotis*, Dobson), ♂, from S.W. Africa (A. 24. 9. 1900. 8); presented by Mr. Ridyard.

Civet Cat, living, from Cameroon (A. 24. 9. 1900. 8): presented by Mr. G. W. Christian, *per* Mr. Ridyard.

Moustache Monkey (*Cercopithecus cephus* (Linn.)), ♀, living, from Batanga, W. Africa (A. 22. 10. 1900. 1); presented by Mr. John Newberry, *per* Mr. Ridyard.

Eleven coloured casts (busts) of Pueblo Indians (A. 15. 10. 1900. 1-11); purchased.

Fifty-six specimens of skins and skulls, representing the following species:—*Metachirus opossum melanurus*, Thos.: Sloth (*indet.*); *Lagidium peruanum*, Meyen.; *Chinchillula sahamae*, Thos.: *Phyllotis boliviensis*, Waterh.; *P. sublimis*; *P. sp.*: *Akodon pulcherrimus*, Thos.; *Cavia aperea cutleri*; *Mus rattus*, Linn.; *Oryzomys phaeopus*, Thos.; *O.*, *sp.*; *Sciurus versicolor*, Thos.: *Artibeus perspicillatus*, Linn.; *Saccopteryx bilineatus*, Temm.; *Thyroptera tricolor*, Spix., from Peru and Ecuador: *Oryzomys indefessus*, Thos., from Indefatigable I., Galapagos; *Rousetta stramineus*, from I. of St. Thomas, W. Africa (A. 28. 11. 1900. 2-19); received in exchange. (See page 39).

Kiang (*Equus hemionus*, Pall.), from Ladak, C. Asia, mounted (A. 28. 11. 1900. 20); purchased.

Tree Kangaroo (*Dendrolagus bennettii*) ♂, skin with skull; Wallaby (*M. inornata*, ?) ♂, skin with skull, from Western Australia (A. 28. 11. 1900. 21 and 22); purchased.

Five coloured casts (busts) of Pueblo Indians, New Mexico (A. 17. 12. 1900. 1-5); purchased.

Fruit Bat (*indet.*) ♂ (A. 17. 12. 1900. 6); purchased.

Skeleton of Elephant Seal (*Macrorhinus leoninus* (Linn.)), (A. 31. 12. 1900. 1); purchased.

Two Chestnut-bellied Squirrels (*Sciurus castaneiventris*, Grey), 2 ♀, from near Yunnan City (A. 31. 12. 1900. 2-2); purchased.

Sixteen specimens collected by the Corporation's Expedition to Sokotra and Abd-el-Kuri, 1898-99:—Fruit Bat (*indet.*), 1 ♂, from Arabia; *Viverricula malaccensis*, F. Cuv., 1 ♂; *Mus rattus*, Linn. subsp. *rufescens*, Gray, 8 ♂, 4 ♀: *Equus asinus*, Linn., subsp. *africanus*, Fitz., ♂ and ♀ imm., from Sokotra (A. 31. 12. 1900. 4-7). For fuller particulars see the Report on the Expedition (Natural History of Sokotra and Abd-el-Kuri), now in the press.

Two Human Skulls (M'pongwe) from Muni R., Ukaka, Eloby, S. W. Africa: Skin of Genette from Boma, R. Congo; Horn of Buffalo from Loanda, W. Africa (A. 26. 6. 99. 1-3); presented by Mr. A. Ridyrd. (Omitted from last Report).

Two skins of *Cobus penricei*, ♂ and ♀ (A. 24. 7. 99. 1): purchased. (Omitted from last Report).

Rhesus Monkey (*Macacus rhesus*) ♀ (A. 24. 7. 99. 3); presented by Mr. G. G. Weiss. (Omitted from last Report).

BOTANICAL DEPARTMENT.

The acquisitions in this department are as follows:—

Thirty models of parts of the following plants:—*Pyrus malus*, L.; *Rosa canina*, L.; *Fragaria vesca*, L.; *Rubus fruticosus*, sub. sp. *suberectus*, Anders; *Potentilla Tormentilla*, Scop.: *Poterium officinale*, Hook. f.; *Prunus Cerasus*, L.; *Drosera rotundifolia*, L.; *Aldrovanda vesiculosa*, Monti.; *Dionaea muscipula*, L.; *Sarracenia purpurea*, L.; *Nepenthes destillatoria*, L.; *Utricularia vulgaris*, L.; *Vitis silvestris*, Gmel.; *V. vinifera*, L.; *Urtica dioica*, L.; *Morus nigra*, L.; *Humulus Lupulus*, L.; *Ficus carica*, L.: descriptions of two of the series of models (E. 17. 1. 1900. 1-21); purchased.

Eleven single fruits, one double fruit and one seed of *Sapindus* sp. (E. 24. 1. 1900. 1); presented by Mr. J. Marshall.

Sixteen seedlings of *Acer Pseudoplatanus*, L. and eight seedlings (*indet.*) from Hoylake: one *Parnassia palustris*, L. from 2000 ft. above the village of Gayle, Yorkshire (E. 2. 4. 1900. 1 and 2; 11. 5. 1900. 17 and 18; 15. 10. 1900. 1); collected and presented by the Director of Museums.

Seven hundred and fifty-five specimens of local British plants, representing over two hundred species (E. 19. 4. 1900. 1-6; 25. 4. 1900. 1-10; 2. 5. 1900. 1-17; 11. 5. 1900. 1-16; 18. 5. 1900. 1-9; 25. 5. 1900. 1-12; 30. 5. 1900. 1-13; 6. 6. 1900. 1-18; 13. 6. 1900. 1-16; 20. 6. 1900. 1-28; 5. 7. 1900. 1-18; 12. 7. 1900. 1-11; 18. 7. 1900. 1-23; 26. 7. 1900. 1-30): collected for the Museum by Mr. Wm. S. Laverock.

One fruit? (*indet.*) taken from a block of mud containing Mud-fish from W. Africa (E. 16. 8. 1900. 1); presented by Mr. A. Ridyard.

Group of Fungi (*Agaricus (Pleurotus) ostreatus*, Jacq.)? (E. 22. 12. 1900. 1); from bones of a whale on the roof of the Museums buildings.

MINERALOGICAL AND GEOLOGICAL DEPARTMENT.

The following are the acquisitions in this Department:—

Eighty specimens of Rocks and associated Minerals, mostly from Italy (F. 16. 7. 1900. 1-80) ; purchased.

One specimen of " Fresh-water Marble " from St. Aniata Mines, near Siena, Tuscany (F. 23. 7. 1900. 1) ; presented by Major-General Robley.

A small pebble of Mica Schist from Old Calabar (F. 28. 11. 1900. 1) ; collected and presented by Mr. John H. Holland.

THE AQUARIUM.

The Aquarium continues to be one of the chief attractions of the Museum ; special interest being taken in the Mud, the-Walking and the Electrical Cat Fishes and in the various species of living Anthro-poids, which have from time to time been on exhibition.

Our efforts to keep in good health and condition the various tropical animals, have proved very successful, but the want of proper accommodation for living Mammals (Monkeys, etc.) has necessitated the removal of most of them to the Zoological Gardens, London. Important donations of West African species have been made from time to time by Messrs. A. Ridyard, Chief Engineer of the S.S. "Niger"; S. Smith, Cameroons; G. W. Stokes, Eloby; J. Newberry, Batanga; A. Forman, Rio del Rey; G. W. Christian, Cameroons and others.

From year to year specimens of the Rainbow Trout (*Salmo irideus*) have been hatched and reared in the small Fish Hatchery in the Aquarium, and it is of great interest to record that some of the young fry so raised and which were placed in enclosed ponds at Bromborough have evidently flourished, as specimens of the fish, some 8 or 9 inches in length, and which can only be about two years old, have recently been taken. This is of great importance as bearing on the question as to the possibility of Rainbow Trout breeding in enclosed waters, in reference to which experiments on a large scale are now being conducted in different parts of the country.

The following species have been exhibited alive during the year, those with an asterisk being alive at the date of this report :—

Fresh Water Hydræ (*Hydra viridis* and *H. fusca*). Sea-Anemones: The Crass (*Tealia crassicornis*): Plumose Anemone* (*Actinoloba dianthus*): Beadlet* (*Actinia mesembryanthemum*): Horse-leech* (*Hæmopsis vorax*): Fresh-water Polyzoa (*Cristatella mucedo*, **Plumatella repens*, *Lophopus crystallinus*): Edible Crab (*Cancer pagurus*): Common Shore Crab (*Carcinus mernas*): Hermit Crab (*Pagurus bernhardus*): Spider Crab (*Stenorhynchus rostratus*): *Palæmonetes varians*: Fresh-water Eel* (*Anguilla vulgaris*): Loch Leven Trout* (*Salmo levenensis*): Rainbow Trout* (*Salmo irideus*): Gold Carp* (*Carassius auratus*): Mirror Carp* (*Cyprinus carpio*, var.): Black Bass: Three-spined Stickleback* (*Gasterosteus aculeatus*): Fresh-water Gudgeon* (*Gobio fluvialis*): Tench* (*Tinca vulgaris*): Rudd (*Leuciscus erythrophthalmus*): Dace (*Leuciscus vulgaris*): Roach* (*Leuciscus rutilus*): Pike* (*Esox lucius*): Perch* (*Perca fluvialis*): Indian Serpent-head (*Ophiocephalus punctatus*): North American Cat-fish* (*Amblyurus catus*): Central American Fresh-water Fish* (*Ikeros facetus*): Paradise Fish (*Polyacanthus viridi-auratus*): Siamese Fighting Fish* (*Betta pugnax*): Electric Cat-fish* (*Malapterurus electricus*): African Mudfish* (*Protopterus annectens*): Walking Fish* (*Periophthalmus koolreuteri*): the Calabar Polypterus (*Calamoichthys calabaricus*): Sole (*Solea vulgaris*): Plaice (*Pleuronectes platessa*): Common Frog* (*Rana temporaria*): Natterjack Toad (*Bufo calamita*): Common Toad* (*Bufo vulgaris*): Italian Toad* (*Bufo vulgaris*): Crested or Great Water Newt* (*Triton cristatus*): Common or Smooth Newt* (*Molge vulgaris*): Spotted Salamander (*Salamandra maculosa*): Alligator Terrapin* (*Chelydra serpentina*): West African Tortoises* (*Testudo calcarata* and *sp. indet.*): Sternotheres* (*Sternotherus adansonii*): Snake (*sp. indet.*): Gecko (*sp. indet.*): Green Lizard* (*Lacerta viridis*): West African Crocodiles* (*Mecistops cataphractus* and *sp. indet.*): Angolan vulture (*Gypohierax angolensis*) (transferred to the Zoological Gardens, London): W. African Squirrel* (*sp. indet.*): Civet Cat (*Viverra civetta*): Antelope (*Cephalophus maxwelli*): Malbrouck Monkey* (*Cercopithecus cynosurus*) (transferred to the Zoological Gardens, London): Moustache Monkey* (*Cercopithecus cephus*) (transferred to the Zoological Gardens, London): Hocheur

Monkey (*Cercopithecus nictitans*) (transferred to the Zoological Gardens, London).

SUMMARY OF ACQUISITIONS.

Zoological.

Cœlenterata	...	...	8 Species	...	...	10 Specimens.
Vermes	...	...	20	„	...	100 „
Arthropoda (Crustacea)			12	„	...	13 „
Arthropoda (Tracheata)			260	„	...	1100 „
Mollusca...	...	...	60	„	...	1020 „
Brachiopoda	...	...	1	„	...	4 „
Fishes	...	...	37	„	...	113 „
Amphibians	...	...	10	„	...	30 „
Reptiles	...	...	62	„	...	230 „
Birds	...	...	286	„	...	611 „
Mammals	...	...	149	„	...	330 „
			905			3561

Botanical.

Plants 227 Species. 815 Specimens.

Geological and Mineralogical.

Rocks and Minerals... .. 82 Specimens.

The aggregate number of specimens acquired by the Derby Museum during 1900 is thus 4,458, compared with 3,728 acquired in 1899.

B.—MAYER MUSEUM.*(a) GENERAL.*

During the past year the collections have been closed for more than six months on account of the extensive alterations which have been necessitated by the extension of the buildings, which necessitated the removal of almost all the wall and table cases, and their contents.

A large and interesting series of Ancient Egyptian Antiquities from Abydos has been received from the Committees of the Egypt Exploration Fund and Research Account.

The collection of objects illustrating the Art Work of the Maoris of New Zealand, formed by Major-General H. G. Robley, has continued on exhibition during the past year.

Our grateful acknowledgments to Mr. A. Ridyard, Chief Engineer, ss. "Niger," for his continued generous assistance in collecting and bringing home numerous highly interesting and, in some cases, unique objects for the West African Section of the Ethnographical Department; also, for the assistance rendered to this Department (through Mr. Ridyard) by Messrs. Dr. E. J. Mettle, A. Forman, G. W. Stokes, S. Smith, E. Holder, O. Sonnenberg, Walter Beattie, H. B. Crompton, Hugh Williams, James Anderson, G. P. During, John Newberry, J. E. Gibney, J. H. Greenhalgh, F. R. C. Lutterodt, H. Hirst, R. Patchett, H. A. Shanu, G. W. Christian, and Mackay on the coast, who have been ever ready to obtain for the collection special wants; and to Messrs. Elder Dempster & Co. for so kindly continuing their permission for these objects to be brought to Liverpool freight free.

During the period that Mr. Ridyard has interested himself in collecting for the Museums he has personally, or through his friends on the coast, contributed nearly 1,000 specimens from West Africa to the Ethnographical Department alone.

Through the continued growth of the exhibits in the West African Section of the Ethnographical Gallery, it has been necessary to extend the space for their exhibition.

The Assistant Curator, Mr. P. Entwistle, has been constantly employed in labelling specimens, and adding to them explanatory drawings and photographs, which add greatly to the interest and value of the collection, as well as the preparation of the series of enlargements of the Races of Mankind for the Anthropological Room, for the British Museum, and Cambridge University, as well as for the illustrations of the *Bulletin of the Liverpool Museums*.

The following photographs, taken by the Assistant Curator, have been sent to the undermentioned investigators to assist in their studies, or to illustrate works on which they may be engaged:—

Group of carved adzes from the Hervey Islands, to Dr. Frobenius, Leipzig; enlargement of the head of a Kru boy, Liberia, to Prof. F. Starr, Chicago University; specimen enlargement of a Kru boy to Prof. Giglioli, Florence. During the past year forty-three enlargements of heads of Caucasian, Ethiopian and Mongolian types, and eight enlargements of finger prints, have been sent to the British Museum, and twelve to the Anthropological Museum (Prof. A. Macalister), Cambridge University.

(b) LOANS AND DEPOSITS.

The collection of New Zealand Ethnographical objects formed by Major-General H. G. Robley has remained on exhibition.

Two manuscripts (1) "Treatise on Moral Philosophy," by S. Thomas Aquinas, German, 15th century (12,037), and (2) Portion of the History of Rome, by Eutropius, Italian, A.D. 1528 (12,068), have been lent for palæographical study to the Librarian, University College, Liverpool.

(c) EXCHANGES.

The following flint and stone implements (29.5.00.38-55) found in various localities in Ireland, were received in exchange from Mr. W. J. Knowles for duplicate Egyptian stone implements:—Fifteen cores and flakes, Island Magee; five flakes, Larne; three knackstones, four cores, six flakes and sixteen scrapers, fragments of urns, teeth, jaw-bones, and shells *Patella athletica* and *Littorina littorea*, examples from the kitchen middens at Whitepark Bay; fifteen celts and flakes in basalt, showing process of manufacture,

from Tullykittagh, Clough, Portglenone, Drunraw, Glenleslie, Braid, Ballycastle, Dungonnell, &c.: six tanged flakes, twelve dressed flakes, twelve hollow scrapers, knives (?), thirty-two scrapers (various), core, twenty leaf-shaped arrow heads, ten flint arrow heads tanged and barbed, twelve tanged arrow heads, and a worked flint, from Braid, Clough, Glenhead, Craigs, Drumraw, Slemish, Culbane, Lyle, Glenleslie, Antinatum, Dunclug, Aughnahoy, Moorfields, Quolie, Tulleykittagh, Ballintoy, Portglenone, Knockboy, Kells, Glenwherry and Wharstown.

'Paloola' (25. 6. 00. 35.), or neck ornament of plaited human hair, with pendant shell ornament made from *Tridacna sp.*, received from the Belfast Literary and Philosophical Society's Museum, in exchange for 30 duplicate Egyptian stone implements.

Selection of duplicate Egyptian stone implements from the Eastern Desert, and West Indian stone implements were sent in exchange to the following:—

Pitt-Rivers Museum, Oxford, 35 Egyptian	\		(	Casts of two Egyptian flint bracelets (28. 1. 1901, 45-46).
Prof. Gigliòli, Florence, 17	"			
" 6 W. Indian	"	in	|	Mammal skins (A. 27. 8. 00. 1-5).
British Museum, 95 Egyptian	"	exchange	|	To be arranged.
Science and Art Museum, Dublin, 82	"		|	Purchase.
Dr. Woodward, Brit. Museum, 28	"	for	|	To be arranged.
Mr. H. Stopes, London, 30	"		|	Do.
Field Columbian Museum, Chicago, 76	"		|	Ethnography from Peru, Arkansas, and Missouri (22. 4. 1901).

(d) ACQUISITIONS.

(1.) GENERAL.

Two cast-iron railway rails (29. 4. 00. 1) laid at Loughborough in 1789, and two iron chairs, one key, and one spike (29. 4. 00. 2), from the Liverpool and Manchester Railway at Rainhill: presented by Messrs. Clement E. and Clement Stretton.

(2.) CERAMICS.

Models in Copelands "Parian" ware, by A. Jarvis, of Assyrian antiquities, as follows:—Assurbanipal and his Queen in a palace garden at Nineveh: statuettes of Sardanapalus and his Queen; Sphinx, and Lion weight (17. 12. 00. 19-25); purchased.

(3.) ETHNOGRAPHY.

PRE-HISTORIC:—

Five photographs (26. 2. 00. 55) of Eolithic flint implements from the Plateau, Ash, Kent; photograph of stone implements (26. 2. 00. 56), from Whitepark Bay, Ireland; photograph of stone implements (26. 2. 00. 57) from Wady Halfa, Egypt; photograph of flint (?) implements (26. 2. 00. 58) from America: presented by Mr. R. D. Darbishire.

ETHIOPIAN RACE.

Africa.—West and South-west Africa:—

List of specimens collected and presented by Mr. A. Ridyard, Chief Engineer, s.s. "Niger" (Elder, Dempster & Co.):—

Goudi seeds, used to prevent the bleeding of the gums (26. 2. 00. 1), Jelouf tribe, St. Louis; purgative powder (26. 2. 00. 2); Gree gree (29. 5. 00. 34); Senegal.

From Sierra Leone:—Native soap (26. 2. 00. 3); wooden comb, with chain and boat attached, carved out of one piece of wood, made by the Susus (26. 2. 00. 52).

From the Gold Coast:—

Lagos:—Native Soap (26. 2. 00. 4); Medicine (26. 2. 00. 5); Native Blacksmith's Outfit, *i.e.*, Bellows of wood with two iron tubes and long clay nozzle, iron pincers, large iron punch, five iron punches, three iron chisels, scraper, iron frame for nail (?) making, two clay crucibles, and four moulds for gold (?) work, impressed in *Sepia officinalis* (24. 9. 00. 3).

From the Cameroons:—

Plaited Grass Gourd (26. 2. 00. 6), Bassa; two Cane Rattles (29. 5. 00. 1-2); Wooden Spoon (24. 9. 00. 4), Atahs, Rio del Rey; Plaited Grass Purse (24. 9. 00. 5); Canoe, Paddle, and Fishing Lines (26. 2. 00. 9), Batanga; two Pop-guns (29. 5. 00. 6); Carved Ebony Stick (24. 9. 00. 7), N'gombi Plantation; Spear (24. 9. 00. 25), Bulu, Batanga; Carved Ebony Walking-stick (26. 2. 00. 49), Batanga.

Gaboon:—Carved Calabash (26. 2. 00. 7); two Gourd Calabashes (26. 2. 00. 8), Muni River, Eloby; Clay Pipe-head in form of a human head (26. 2. 00. 10), Bata; Musical Instrument (26. 2. 00. 11), Muni River, Eloby; Hunter's Bag (29. 5. 00. 3), Botica, Muni River, Eloby; Carved Wooden Stool and Brass Necklet (24. 9. 00. 1-2), Botica, Muni River, Eloby; Wooden Mask, painted (24. 9. 00. 10), M'pongwe; Carved Wooden Stick (24. 9. 00. 20), Mayumba; Hide Whip (24. 9. 00. 21), Mayumba; three Earthenware Pipe Bowls (24. 9. 00. 22-24), Lukungu country.

Congo Français:—

Painted Wooden Mask (26. 2. 00. 12), Sette Kama; Fetish (26. 2. 00. 13), Mayumba; Fetish 'Nbunha' (24. 9. 00. 13), Loango River.

Portuguese Congo:—

Musical Instrument, a Zanze (26. 2. 00. 14), Maculla; two Plaited Grass Plates (26. 2. 00. 15), Maculla; two beautifully knitted Caps of Pineapple Fibre (26. 2. 00. 16-17), Zoumba, near Maculla; Spear (26. 2. 00. 18), from Zoumba, near Maculla; large Knife in Wood Sheath (26. 2. 00. 20), Ambrizette; Wooden Spoon, the handle in form of a hand holding a snake (24. 9. 00. 8), Lualli River, Cacongo; Wooden Spoon, the handle carved to represent an old-time punishment (24. 9. 00. 9), Lualli River, Cacongo; Red Earthenware Saucer and Bottle (24. 9. 00. 11-12), made at Loanda; Ju Ju, named 'Bumba' (24. 9. 00. 14), Lualli River, Cacongo; Wooden Fetish (24. 9. 00. 6), Landana; beautifully carved Ebony Stick (24. 9. 00. 51), Ambrizette; Ebony Walking-stick (24. 9. 00. 52), Ambrizette; Bow and seven Wooden Arrows (24. 9. 00. 53), Ambrizette; Filter, or 'Drip' Stone (26. 2. 00. 23), Mossamedes.

Upper Congo River:—

Wooden Fetish Figure, showing tattoo marks on chest and back (24. 9. 00. 15), Kassai; Wooden Fetish Figure (24. 9. 00. 16), Bangala; Knife (24. 9. 00. 17), Bangala; two Grass Cloths (24. 9. 00. 18-19), Manyanga; pair of Wooden Shoes (26. 2. 00. 21), Kabambarra; Knife (26. 2. 00. 22), Matetela; Nail-cutter and Cleaner (26. 2. 00. 23), Mamba Macocoro; Carved Wooden Female

Figure, 'King's Wife, N'dangi' (29. 5. 00. 4), Mayombi; Carved Wooden Figure, 'Ward Keeper for N'dangi King' (29. 5. 00. 5), Mayombi; Knife (29. 5. 00. 17); three Arrows (29. 5. 00. 35), Kassai; Photographs of the Markets at Winnebah (26. 2. 00. 53-54).

Fernando Po:—

Belt of pieces of shells, used as money (26. 2. 00. 50); Necklet of Beads (26. 2. 00. 51), used by the Boobys.

Collected and presented by Mr. H. B. Crompton, *per* Mr. A. Ridyard:—Wooden Mask (26. 2. 00. 24), Wooden Rattle, elaborately carved and poked (26. 2. 00. 25.), Wooden Cassava Grater (26. 2. 00. 26), two Combs (26. 2. 00. 27), Wooden Female Fetish (?) Figure, painted (26. 2. 00. 28), Wooden Musical Instrument (26. 2. 00. 29), all from Sette Kama, Congo Français.

Collected and presented by Mr. S. Smith, *per* Mr. A. Ridyard:—Ivory Horn (26. 2. 00. 37), Cameroons; two Baskets (24. 9. 00. 26-27), Cameroons; Carved Calabashes, with lids (24. 9. 00. 28-29), Lagos and Cameroons; Wooden Fetish Head (24. 9. 00. 31), Wooden Fetish Head, the eyes inlaid with pieces of pottery (24. 9. 00. 30), Fetish Head (24. 9. 00. 32), Weaving Machine (24. 9. 00. 33), Wooden Food Bowl (24. 9. 00. 34), all from the Cameroons; Wooden Mask (24. 9. 00. 35), Bali; Model Canoe (24. 9. 00. 54), Cameroons.

Collected and presented by Mr. James Anderson, Landana, *per* Mr. A. Ridyard:—Wooden Fetish (?) Figure of Woman and Child (26. 2. 00. 30), Soup Tureen carved out of wood (26. 2. 00. 31), Knife, the handle in form of an animal's leg (26. 2. 00. 32), Knife made out of a spear-head (26. 2. 00. 33), Carved Bamboo Staff used for storing stolen spirit (26. 2. 00. 38), Carved Wooden Stick (26. 2. 00. 39), two Carved Wooden Sticks (26. 2. 00. 40-41), all from Landana, Portuguese Congo.

Collected and presented by Mr. O. Sonnenberg, *per* Mr. A. Ridyard:—Large Wooden Fetish Figure (Mungarka), studded with nails, &c. (29. 5. 00. 21), Caongo and Mayombi country; Baisie Fetish, worn on the arm and said to protect the wearer when passing through the bush (29. 5. 00. 22), from a Mayombi village

named Lella: Wooden Dance Mask (29. 5. 00. 23), Futa, Congo Français: Box, containing a number of carved figures (29. 5. 00. 24), N'Kotte bitiva (between Futa and Loango): large Wooden Figure of a man on horseback (29. 5. 00. 25), Bembica, Lucalla River, Cacongo: large Wooden Male and Female Figures (29. 5. 00. 26), Bembica, Lucalla River, Cacongo: Wooden Figures of woman and child (24. 9. 00. 44), Lualli River, Cacongo.

Collected and presented by Mr. J. D. Maysmor, Fernando Po, *per* Mr. A. Ridyard:—Basket (29. 5. 00. 27), Necklace of Coloured Beads (29. 5. 00. 28), two Anklets of Plaited Shells (29. 5. 00. 29-30), Bamboo Whistle (29. 5. 00. 31), all from the Boobys, Fernando Po.

Collected and presented by the Rev. N. Boocock, Rio del Rey, *per* Mr. A. Ridyard:—Carved Wooden Head, ornamented with two protruding horns, worn by the chief person in the 'Idem' play (24. 9. 00. 36): Wooden Musical Instrument, 'Nbutu' (24. 9. 00. 37), Old Calabar.

Collected and presented by Mr. F. R. C. Lutterodt, *per* Mr. A. Ridyard:—Sword, iron blade and carved wooden handle (24. 9. 00. 38), Kumasi, Ashantee.

Collected and presented by Mr. J. H. Frame, *per* Mr. A. Ridyard:—Five small Fetish Figures (24. 9. 00. 39-43), Bali, Cameroons.

Collected and presented by Mr. G. H. Greenhalgh, Boma, *per* Mr. A. Ridyard:—Wooden Figure of a Female and Child—a fetish (?) (26. 2. 00. 34), Boma: Throwing Knife (26. 2. 00. 35), Zandeh tribe, Upper Congo River: Spear (29. 5. 00. 32), Bangala, Upper Congo: Spear (29. 5. 00. 33), Welle River, Upper Congo.

Presented by Mr. Mackay, *per* Mr. A. Ridyard:—War Knife (26. 2. 00. 36), Basoko, Upper Congo River.

Collected and presented by Mr. Hugh Williams, Batanga, *per* Mr. A. Ridyard:—Ebony Walking-stick (26. 2. 00. 42), Batanga: Head-dress, helmet-shaped, made of cloth and decorated with buttons (26. 2. 00. 43), Temboni River, Eloby: Knife (26. 2. 00. 44): War Axes, with engraved blades (26. 2. 00. 45-6), M'Pongwe, Temboni River, Eloby: War Fetish of the Bulus (26. 2. 00. 47):

Collected and presented by Mr. G. W. Stokes, *per* Mr. A. Ridyard:—Cross-bow and Arrows (26. 2. 00. 48), Muni River, Eloby.

Collected and presented by Dr. N. H. D. Cox, Batanga, *per* Mr. A. Ridyard:—Cane Trap for Cray-fish (29. 5. 00. 8), Batanga; Wooden Mask, painted (29. 5. 00. 9), Batanga.

Collected and presented by Mr. G. H. Ashton, Sette Kama, *per* Mr. A. Ridyard:—Three Wooden Fetish Figures, found in a cavern (29. 5. 00. 10-12), Bongo, Sette Kama; Carved Wooden Figure (29. 5. 00. 13), Bongo; two Frames on which are partly woven grass mats (29. 5. 00. 14-15), Bongo, Sette Kama.

Collected and presented by Mr. H. Hirst, Landana, *per* Mr. A. Ridyard:—Native carrying basket and strap (29. 5. 00. 16); three Native Combs (29. 5. 00. 17-19); Fetish 'Malella' (29. 5. 00. 20), all from Landana.

Collected and presented by Mr. R. Patchett, *per* Mr. A. Ridyard: Spear (24. 9. 00. 45); Harpoon, with loose iron head, attached by a cord to the centre of the shaft (24. 9. 00. 46); two Spears (24. 9. 00. 47), all from the Upper Congo.

Collected and presented by Mr. H. A. Shanu, Boma, *per* Mr. A. Ridyard:—Fish Spear (24. 9. 00. 49), Bangala, Upper Congo.

Collected and presented by Mr. G. W. Christian, *per* Mr. A. Ridyard:—Large Drum (24. 9. 00. 50).

Presented by Dr. E. J. Mettle, Accra, *per* Mr. A. Ridyard:—Coat (24. 9. 00. 55) of woven cloth, with pocket-like appendages of leather attached to back and front. This 'Dania' or life-coat was worn by the donor's grandfather in several wars in the year 1826, particularly the battle of Katamansu. Presented by Dr. Edward J. Mettle.

Large Basket (30. 1. 00. 2), covered with plaited and coloured leather, Mahomedan work, Niger River; Brass Plate, with punched designs (30. 1. 00. 3), Niger River; Double Musical Instrument (30. 1. 00. 4), and large Wooden Comb (30. 1. 00. 5), from the Niger River; purchased.

Carved Wooden Box (29. 11. 00. 14), Benin: purchased.

Earthenware Water Vessel, richly ornamented (29. 11. 00. 15). Niger (?) district; purchased.

Shield (17. 12. 00. 1) made of reed, Bania, Upper Sanga River, River Congo: Throwing Knife (17. 12. 00. 2), Bania: Shield (17. 12. 00. 3) of reed, Bania, Yangere, Sanga River; Money in form of a spear-head (17. 12. 00. 4), n'Timos, Lower Sanga; Throwing Knife (17. 12. 00. 5), Mobangi, Upper Congo River: Shield (17. 12. 00. 6) of reed, Mobangi, Upper Congo River: Money (17. 12. 00. 13) in form of an iron spear head, Lomani River, Upper Congo: six (17. 12. 00. 7-12) iron, brass, and copper hair-pins of various forms, Niam Niam; Shield (17. 12. 00. 14) of reed, Aruwimi; Wooden Tappa-beater (17. 12. 00. 17), Mombutto; Axe, with iron head (17. 12. 00. 18), Fan, Gaboon; purchased.

East Africa:—

Painted Hide Shield (25. 6. 00. 1), and Spear (25. 6. 00. 2), Masai tribe; Painted Hide Shield (25. 6. 00. 3), and Spear with long iron head (25. 6. 00. 4), Chaga tribe: collected and presented by the Rev. H. F. Gordon.

Polynesia.—New Zealand:—

Stone Adze Head (29. 5. 00. 37), found at Lake Tuakitoto, New Zealand, presented by Mrs. Drewe.

MONGOLIAN RACE.

America.—South:—

Dug-out Canoe and two Paddles (30. 1. 00. 1), Iquitos, Amazon River, presented by Consul E. D. Adamson.

Very large Painted Earthenware Water (?) Vessel (29. 5. 00. 36), from the Ucayali, River Amazon, presented by Captain J. Good, s.s. "Bolivar."

North:—

Collection of Stone and Flint Pounders, Arrow-heads and Hammers (29. 11. 00. 27-34), from Tennessee, U.S.A., presented by Mr. Robert Craig.

Selection of Stone Mauls, Flint Scrapers and Arrow-heads, Metal Arrow-heads, and Horn Ladle (29. 11. 00. 1-26), from Calgary, Canada; purchased.

Flint Hook (17. 12. 00. 26), Virginia, U.S.A.; purchased.

China.—

Two Photographs (29. 11. 00. 16-17) of Shanghai silk culture and Chinese weaving; purchased.

Malay Archipelago.—Nias :—

The following specimens (29. 11. 00. 1-13) from the Nias Islands were acquired by purchase:—Ancestral Statuettes in wood; Cutlass; Sword in wooden sheath; Bracelet made from the shell of *Tridacna gigas*; Neckring, 'Kalabulo'; Head Ornament—a band of linen on which are sewn hat-like shaped silver ornaments; Shield of wood bound with cane; Woman's Stick, inlaid with lead; Wooden Shield, the front covered with leather; Drum; Iron Helmet and Plumes; Harness and Helmet of plaited arenga fibre; Iron Breast-plate and Fringe of fibre.

CAUCASIAN RACE.

Egypt.—

A selection of Egyptian Antiquities (24. 9. 00. 56-235), from the excavations at Abydos, presented by the Committees of the Egypt Exploration Fund and Research Account.

SUMMARY OF ACQUISITIONS

Ceramics	6
Ethnography	917
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									923
									<hr/>

HENRY O. FORBES,

DIRECTOR.

THE WALKER ART GALLERY.

The Curator begs to report that the work of the Art Department during the year 1900 was of a satisfactory character, except that the limited space for displaying the Permanent Collection caused the need of some enlargement of the Gallery to be more than ever apparent. Unless some addition is made to the hanging space in the near future it will be necessary to store many of the works of art in the cellars during the greater part of the year.

The continual re-arrangement necessitated every year by additions to the Collection renders the disposition of the pictures in harmonious grouping more and more difficult, and in the case of Sculpture any classification and chronological sequence is impossible in consequence of the insufficient space.

During the year there have been a large number of applications for permission to reproduce the more important works in the collection, and these have, in nearly all cases, been granted on the usual terms—an agreement being signed and a nominal fee paid in acknowledgment of the Committee's property in the several copyrights. The Committee have also arranged with Messrs. Eyre and Spottiswoode, the King's printers, for the publication of a number of reproductions of the pictures, which will be printed in carbon, platinotype and other media.

The same firm have also, by arrangement with the Committee, prepared and published an Illustrated Catalogue of the Permanent Collection, which contains thirty-five reproductions, and is a marvel of cheapness, and admirable process work. The Catalogue has been highly appreciated, and is meeting with a ready sale. The importance of the City Collection is shown by the fact that the publishers have issued Catalogues of the National Gallery, the Tate Gallery, the Walker Art Gallery being chosen for the third of the series.

The Autumn Exhibition (the thirtieth held under the auspices of the Corporation) was in every way a gratifying success. The works exhibited were remarkable for an average of high quality. The interest and attraction of the Exhibition was not confined to the large rooms, but all were rendered important by the display of admirable works.

The usual issue of invitations to the Private View was greatly curtailed this season, it being found that many to whom these invitations were sent did not support the Exhibition by subsequent payment for admission, or by purchasing season tickets. This policy appears to have been fully justified by the fact that during the year there was an increase in all the items for admission, the sale of season tickets advancing from 2,614 to 3,006, and in the shilling, sixpenny and threepenny admissions there was a total increase of £130 17s. 3d., while 570 more catalogues were sold. The Exhibition was opened on the Private View Day by the Right Hon. Louis S. Cohen, Lord Mayor, when there was a large attendance.

RESULTS OF THE AUTUMN EXHIBITION OF PICTURES.

	1900.			1899.		
		£	s. d.		£	s. d.
Number of Works of Art Exhibited	1,566	—		1,553	—	
Number of Pictures sold	175	—		172	—	
Amount of sales at Catalogue prices	—	8,508	14 6	—	8,089	2 6
Season Tickets sold	3,006	541	19 6	2,614	482	13 6
Admissions at One Shilling	28,623	1,431	3 0	27,265	1,363	5 0
Sixpence	19,942	498	11 0	18,342	458	11 0
Threepence	15,122	189	0 6	13,285	166	1 3
Catalogues sold	19,223	501	7 0	18,653	493	0 0
Commission on sales	—	277	14 4	—	197	0 9
Miscellaneous Receipts	—	922	15 2	—	375	14 3
Total Receipts, exclusive of sales	—	4,084	16 2	—	3,339	5 0

Of the 1,566 works exhibited, 172 were sold, representing a catalogue value of £8,508 14s. 6d. Included in the above, 435 were

the productions of local artists. Of these 82 were sold, the catalogue prices of which were £1,226 12s. 6d.

The estimation in which the quality of the works shown was held by other Art Gallery Committees is proved by the fact that a large proportion were specially invited for Spring Exhibitions in various parts of the country. 69 were sent to Southport, 159 to Manchester (Queen's Park), 70 to Oldham, 104 to Leeds, 20 to Bradford, and 36 to Glasgow.

A large number of Students have been engaged in copying in the Gallery during the year, the total attendances amounting to 2,463. Many of the copyists show considerable skill, a small number being remarkable for their painstaking and faithful reproductions. The majority, however, would be more profitably employed in mastering the art of drawing at the Schools of Art, under the directions of a master. At present time is wasted in many instances in making bad or indifferent copies of pictures. It would seem that long continuance in copying paralyses individual effort, and with very rare exceptions even good copyists are quite incapable of doing original work. Art teachers and parents would do well to consider whether the art education of young people is being promoted by making them mere reproducers of the ideas and technical methods of others.

The Galleries have been utilised during the year for the following entertainments, exhibitions, &c.:—

The Lord Mayor's Reception to the Committees of the various local Political Organisations: the Examination of Students' Work for Art Scholarships under the Technical Instruction Committee; an Exhibition of the Art Work of the Students of Liverpool University College; the Annual *Conversazione* and Prize Distribution of the Liverpool Geographical Society; the Exhibition of the picture, "Ecce Homo," by the late M. Munkacsy, which proved particularly successful; also the picture, "Christ or Barabbas," by Davenport Bates.

The Collection of Indo-Persian drawings and manuscripts, deposited by Colonel Hanna for a period of three years in the Permanent Collection, were returned to the owner in good order and condition in October last.

PICTURES LENT.

The following Works have been loaned to Exhibitions, &c., as under:—

TITLE.	ARTIST.	LENT TO.
"Love and the Mermaid"..... (bronze group)	C. J. Allen	Paris Exhibition.
"When Summer sweetly shines o'er Land and Sea"	J. McDougal, R.C.A.	Royal Birmingham Society of Artists.
"A Summer Night".....	Albert Moore	Paris Exhibition.
"The Evening of the Battle of Waterloo."	Ernest Crofts, R.A.....	Manchester Whitworth Institute.
"Off to the Fishing Ground"...	Stanhope A. Forbes, A.R.A.	Hull Corporation.
"A Reverie"	Frank Dicksee, R.A.	Nottingham Corporation.
"The Martyr of the Solway"...	The Late Sir J. E. Millais, Bt., P.R.A.	Aberdeen Artists' Society.
"Portrait of Michael James Whitty"	J. Bishop	Institute of Journalists.
"Venus and Anchises"	Sir W. B. Richmond, R.A.	The New Gallery, London.
"A Summer Night".....	Albert Moore	The Royal Academy.
"In time of War"	T. Faed, R.A.	The Royal Scottish Academy.
"Off to the Fishing Ground"...	Stanhope A. Forbes, A.R.A.	Leeds Corporation.
"Eventide"	Prof. H. von Herkomer, R.A.	Oldham Corporation.

ADDITIONS TO THE PERMANENT COLLECTION.

The undermentioned Works of Art have been added to the Permanent Collection during the year, viz.:—

By Donations:—

A plaster bronzed bas relief, after Fiammingo, presented by Messrs. Elkington & Co. "The Unternen Thal" (Oil), by H. C. Selous: "Under the walls of Maestricht" (Oil), by C. Napier Hemy, A.R.A.; and "How we caught the Pilehards" (Water Colour), by C. Napier Hemy, A.R.A., bequeathed by the late Joseph and Mary Jones King. "Kenilworth Castle" (Oil), by John Constable, R.A., and "Mare and foal" (Oil), by Sir Edwin Landseer, R.A., presented by Colonel W. Hall Walker, M.P. Portrait of W. Taylor, Esq., Banker, of Oxford (Oil), by W. Huggins, presented by James Smith, Esq., of Blundellsands. "Oxen drawing an enormous block of marble" (Oil), by H. Coleman, bequeathed by the late Mrs. Warrington Wood; and "Daniel in the lion's den" (Oil), bequeathed by the late Thomas H. Ismay, J.P.

By purchase from the Autumn Exhibition of 1900:—

"Helena and Hermia" (Water Colour), by Sir E. J. Poynter, P.R.A.; "The goose girl" (Oil), by Val. C. Prinsep, R.A.; "There is a silence in the solemn woods" (Oil), by J. MacWhirter, R.A.; "Fast falls the eventide" (Oil), by B. W. Leader, R.A.; "Trevose Head" (Oil), by John Brett, A.R.A.; "Ecce Agnus Dei" (Oil), by A. Chevallier Tayler; "Top of the tide" (Oil), by Walter Bayes; and "Morning—Conway harbour" (Water Colour), by W. Stephenson, A.R.C.A. (purchased under the terms of the Lord Derby Bequest).

REPRODUCTIONS.

The following privileges for the reproduction of Works in the Permanent Collection have been granted during the year. In no case is the privilege granted an exclusive one, the Committee reserving to themselves the right to afford facilities to other applicants at their discretion:—

APPLICANT.	PICTURE.	ARTIST.
Cassell & Co., Ltd.	"Maiwand—Saving the Guns"	R. Caton Woodville.
Isbister & Co., Ltd.	"Dante and Beatrice"	Henry Holiday.
Frederick Dolman	"The Evening of the Battle of Waterloo"	Ernest Crofts, R.A.
Wm. Jackson	"Dante and Beatrice"	Henry Holiday.
Bernard et Cie	"A Summer Night"	Albert Moore.
T. McLean	"A Reverie"	Frank Dicksee, R.A.
Frederick Dolman	"Psyche in the Temple of Love"	Sir E. J. Poynter, P.R.A.
"	"O Mistress mine where are you roaming?"	E. A. Abbey, R.A.
G. G. Napier	"The Evening of the Battle of Waterloo"	Ernest Crofts, R.A.
G. Letts & Co.	"Dante's Dream"	D. G. Rossetti.
Black & White	"	"
Pearson's Magazine	"O Mistress mine where are you roaming?"	E. A. Abbey, R.A.
G. Letts & Co.	"A Summer Night"	Albert Moore.
"	"The Death of Nelson"	D. Maclise, R.A.
Cassell & Co., Ltd.	"And when did you last see your Father?"	W. F. Yeames, R.A.
"	"The Evening of the Battle of Waterloo"	Ernest Crofts, R.A.
"	"Maiwand—Saving the Guns"	R. Caton Woodville.
"	"Cromwell refusing the Crown"	J. Schex.
"	"The Ante-chamber at Whitehall"	E. M. Ward, R.A.
Eyre & Spottiswoode	"One of the Family"	F. G. Cotman, R.I.
Black & White	"Ruth and Naomi"	P. H. Calderon, R.A.
"	"An Idyll"	M. Greiffenhagen.
"	"And when did you last see your Father?"	W. F. Yeames, R.A.
Rev. A. Whympster	"Faithful unto Death"	Sir E. J. Poynter, P.R.A.

Year.	ADMISSIONS.			Season Tickets.			Catalogues Sold.			Commission on Pictures Sold.			Miscellaneous Receipts.			Total Receipts.			Pictures Sold.								
	Sixpence.			Threepence.			Season Tickets.			Catalogues Sold.			Commission on Pictures Sold.			Miscellaneous Receipts.			Total Receipts.			Pictures Sold.					
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	No.	£	s.	d.		
1871	720	16	0	207	14	6	62	2	0	165	10	0	320	18	6	46	4	4	1,523	5	4	235	5	4	6,395	2	6
1872	601	5	0	48	2	6	59	8	6	168	0	6	312	6	0	3	18	3	1,368	8	3	242	6	231	4	6	
1873	665	18	0	229	10	3	96	8	6	199	17	6	371	17	0	2	10	0	1,566	1	3	271	6	7,402	17	6	
1874	854	16	0	241	13	3	151	16	6	247	0	6	479	0	3	2	7	0	1,976	13	6	337	6	9,514	13	0	
1875	972	13	0	237	14	0	210	7	0	279	14	3	617	3	0	11	9	2	2,406	17	11	345	6	12,299	18	6	
1876	1,118	0	0	232	7	6	221	1	0	301	12	0	440	15	3	9	10	7	2,409	15	10	255	6	8,867	10	0	
1877	1,928	12	0	419	3	3	443	14	0	454	10	1	537	11	2	18	4	2	3,801	14	8	301	0	10,963	11	0	
1878	1,964	17	0	423	5	0	528	14	6	562	8	6	237	13	0	142	0	4	4,189	7	10	235	6	9,159	15	0	
1879	1,516	12	0	378	11	9	566	7	6	504	9	3	364	16	0	7	17	0	3,550	15	0	267	6	11,753	7	6	
1880	1,449	11	0	274	4	6	499	16	0	509	7	3	344	3	3	10	17	7	3,727	19	1	271	6	12,210	11	0	
1881	1,434	15	0	376	4	6	475	14	0	468	19	9	523	7	6	15	9	6	3,583	14	9	315	6	7,868	3	6	
1882	1,430	3	0	332	16	0	476	1	0	472	14	6	362	8	9	23	1	11	3,396	8	8	311	6	8,472	10	6	
1883	1,302	1	0	304	17	3	381	3	6	434	15	9	403	13	0	32	6	10	3,132	5	4	226	6	12,313	7	6	
1884	1,966	12	0	519	14	3	649	7	6	599	13	3	432	6	3	87	7	5	4,790	1	2	291	6	8,028	8	6	
1885	1,317	9	0	344	10	0	501	7	6	481	7	9	353	17	0	44	1	10	3,409	2	1	196	6	8,576	18	0	
1886	1,147	1	0	333	15	9	302	10	6	434	9	0	336	13	9	36	19	7	2,989	3	7	224	6	4,791	19	0	
1887	888	15	0	260	0	0	216	4	0	371	2	3	185	3	9	18	11	0	2,329	14	6	181	6	6,461	6	0	
1888	1,473	5	0	186	11	3	384	1	0	524	17	6	268	16	9	40	3	3	3,501	3	9	168	6	8,083	3	6	
1889	1,475	4	0	92	15	6	432	11	6	524	9	6	283	10	6	75	2	7	3,472	1	1	184	6	7,003	2	0	
1890	1,372	11	0	241	4	6	511	12	6	484	18	0	221	16	9	79	1	4	3,286	7	7	188	6	5,132	8	6	
1891	1,765	3	0	449	1	9	593	14	0	589	1	6	281	4	3	61	15	6	4,138	15	6	159	6	6,297	9	0	
1892	1,539	13	0	223	4	0	652	9	6	535	12	9	172	7	9	43	16	2	3,609	2	2	149	6	5,132	8	6	
1893	1,423	15	0	207	12	9	620	18	6	505	9	0	196	14	6	42	6	0	3,441	15	9	139	6	4,345	4	6	
1894	1,290	7	0	246	17	6	641	12	6	500	0	9	142	11	3	31	9	10	3,286	12	10	124	6	5,470	7	0	
1895	1,268	10	0	213	13	3	566	6	0	467	18	0	180	14	0	24	11	4	3,135	17	7	155	6	4,227	8	0	
1896	1,371	15	0	205	7	9	623	2	0	500	14	7	143	16	2	64	17	5	3,332	17	5	151	6	5,821	12	6	
1897	1,510	14	0	258	12	9	584	1	0	553	4	3	179	4	10	90	5	10	3,709	14	2	176	6	9,397	17	6	
1898	1,406	9	0	229	2	0	453	6	6	490	19	8	365	11	10	209	3	9	3,582	19	3	188	6	8,089	2	6	
1899	1,363	5	0	166	1	3	482	13	6	493	0	0	197	0	9	375	14	3	3,536	5	9	172	6	8,508	14	6	
1900	1,431	3	0	189	0	6	541	19	6	501	7	0	277	14	4	922	15	2	4,362	10	6	175	6				
Total	39,991	10	0	8,239	4	0	12,930	9	6	13,327	4	7	9,734	17	1	2,573	18	11	96,547	12	1	6,631	6	237,456	8	6	

17 JUN. 1904





FORTY-NINTH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
PUBLIC LIBRARIES,
MUSEUMS,
AND
ART GALLERY,
OF THE
CITY OF LIVERPOOL,



FOR THE YEAR ENDING 31ST DECEMBER, 1901.



LIVERPOOL:

G. TIDLING AND CO., PRINTING CONTRACTORS, 53, VICTORIA STREET.

1902.



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COMMITTEE AND OFFICERS

for the Year 1901-1902.

THE RIGHT HONOURABLE CHARLES PETRIE, J.P., LORD MAYOR.

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Deputy Librarian :

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Director of Museums :

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Assistant Curator of Derby Museum :

JOSEPH A. CLUBB, M.Sc.

Assistant Curator of Mayer Museum :

P. ENTWISTLE.

Curator of the Walker Art Gallery :

CHARLES DYALL.

Assistant Curator, Walker Art Gallery :

ARTHUR G. QUIGLEY.

GENERAL REPORT.

The exhaustive report of the Chief Librarian renders it unnecessary to dwell further upon the statistical facts of the past year beyond directing attention to the satisfactory growth which these figures indicate, of the popular appreciation of our public facilities for reading and study. We have successfully introduced open bookcases containing new and popular works, from which readers can select books without going through the usual book-order formula. These have been greatly appreciated, and have had the good effect of supplanting to some extent the casual reading of magazines.

Very much of the success of our Free Libraries is due to the interest which our officers take in facilitating the work of readers, in indicating to them the best books in any particular line of study or research, and in encouraging among our young readers the selection of books of travel, of scientific research, or of standard classics, in place of light literature or magazines. Reading is largely a matter of habit and education; perhaps the greatest hindrance to solid reading and study is the habit of desultory reading, which the prevailing fashion of "paragraph writing" does so much to foster and encourage. If, says the young reader, I can get my scientific facts summed up in a paragraph of two dozen lines, why should I read a whole thesis? little thinking that the paragraph is no sooner read than forgotten, and what we want is not the pleasant entertainment of the moment, but the accurate knowledge which will be our possession for all time.

The Reading Rooms for Women and Boys have proved a great success, and it is pleasing to find so many boys and girls making use of these rooms during their holiday time.

The new Toxteth Library is approaching completion, and promises to be a model Library in its various arrangements. The Wavertree

Library is also making satisfactory headway. We have still to build a Library at West Derby, which the Committee is anxious to start at the earliest moment our finances will permit.

The Museum Galleries are now completed, and our collections are in process of arrangement for exhibition. This will necessarily take some time but as the various sections are completed they will be thrown open to the public.

The Permanent Picture Galleries grow in interest and attractiveness; and our last Autumn Exhibition worthily maintained the great reputation which these exhibitions have hitherto achieved.

WILLIAM B. FORWOOD,

CHAIRMAN.

LIBRARY DEPARTMENT.

CHIEF LIBRARIAN'S REPORT.

The statistics of the Libraries and Reading Rooms show that their popularity during the past year has in no way diminished. The total issue of bound volumes numbers 1,636,292: being an increase of 150,768 over the issues of last year. Of magazines, reviews, and periodicals of various kinds, the issue was 712,321, which shews a falling off of nearly 16,000. The number of persons who have consulted the newspapers are estimated at 652,465, and if to these figures we add the total of those persons who took advantage of the series of Free Lectures given at the different centres, some idea will be obtained of the work directed by the Library Committee during a single year. Large as are these issues of books and magazines, they would have been much larger but for the closing of the Picton Reading Room during a whole month for painting and cleaning. It may here be mentioned that it is thought the Reference Library statistics of books issued are adversely affected by the recent innovation made at the suggestion of the Chairman, Sir W. B. Forwood, of placing in the Picton Reading Room a large selection not only of reference books, but of the new books added from week to week to the Library, so that they can be consulted at pleasure without the formality of asking for them in writing. This has given great satisfaction to readers, and no less satisfaction to the management, inasmuch as no losses as yet have been sustained of these particular books. The fluctuation in the class of books read by readers always possesses a certain amount of interest, though reasons for them cannot always be satisfactorily adduced. Taking the Picton Reading Room to represent the student readers (as books of a popular character are excluded from it), we have a diminution of 3,000 under the head of Theology and Religion, 400 under Natural Philosophy and Mathematics, 800 under the Fine and Mechanical Arts, 3,000 under Philology, Education, and Foreign Languages, and 400 under Latin and Greek Classics. On the other hand, Natural History

shews an increase of some 700 volumes, History and Biography 1,500, Travels, Topography, Gazetteers, &c., 2,700, Politics, Law, &c., 900, Poetry and Dramatic Literature 800, and works of General Reference 1,800. A more satisfactory proof of the growing popularity of the Reference Library is exemplified by the fact that 5,714 more persons used the Reference Library last year than in 1900, and this, notwithstanding the somewhat lengthy period it was closed.

The completion of the new scheme of heating and ventilating the Brown Library enables readers and staff to fully appreciate the improvement effected in both respects. No part of the institution has so thoroughly tested the efficacy of the new system as this: and with results which leave little doubt of their important bearing on the health and comfort of all concerned.

The cataloguing of the art books presented by the late Mr. Hugh Frederick Hornby is being steadily proceeded with. As the majority of the books are unique in character by virtue of their extra plates, autograph letters, or artistic bindings, the work is necessarily slower than ordinary cataloguing. Such a collection of books deserves to be dealt with in a manner every way commensurate with its value and importance.

There was held in the Reference Library during the year another of those exhibitions of books, prints, and drawings which have given so much pleasure and revealed to the citizens of Liverpool what a valuable and interesting property they possess in their Public Reference Library. The exhibition was open two days, and was attended by 5,400 persons.

The acquisition by the Committee of a collection of autograph letters, deeds and other documents connected with the Moores of the Old Hall, Oldhall Street, and later of Bankhall, is a matter of much importance, and deserves prominent mention in this report. The Moores were the family *par excellence* of Liverpool for nearly 500 years. We find a Sir John de la More living at the Old Hall as early as 1236; and, in the time of Edward I., Richard de la More and John de la More represented Liverpool in Parliament. Sir Peter de la More was Speaker of the House of Commons in 1377; while Colonel John More was Governor of Liverpool Castle, and

defended the town when it was besieged by Prince Rupert in 1644, and he was one of the signatories to the death warrant of King Charles I. The office of Mayor of Liverpool was filled by members of this family forty times between the reign of Edward III. and the middle of the 17th Century, Colonel More, the regicide and uncompromising Cromwellian, being the last Mayor of the family. Their estates in and about Liverpool were extensive, and would now have been of immense value. Moor Street and Moorfields perpetuate the family name; and Bank Hall and Oldhall Street their residences. These documents number 1,194 items, and are a valuable contribution to local history.

The books issued from the Lending Libraries during the past year amount to 1,060,472 volumes, being an increase of 90,852 over the previous year. Of this number 889,511 were borrowed for home reading, and the balance were read in the reading rooms attached to the several branches. Beyond a decrease of some 600 volumes in Theology and Religion, and very small decreases under the heads of Latin and Greek Classics, and Education and Languages, the other classes show marked increases. Prose Fiction aggregates to itself a little more than half of the total amount, and books for the young, which are largely story books, 20,000 volumes. The other principal increases are Technical books 13,000 volumes, History and Biography 4,000, Natural History 2,000, Commerce and Political Economy 2,000, and Travels 1,200. The issue of music numbers 21,659 volumes, shewing an increase of upwards of 2,000. As it is reasonable to assume that the books borrowed for perusal at home are in many cases more or less read by other members of the family than the immediate borrower, the figures indicating the issue of these books may fairly be considerably multiplied when compared with the figures indicating those read in the public reading rooms.

The new Toxteth Branch Library approaches completion, and the long promised library, with its commodious reading rooms for men, women, and boys, will soon be an accomplished fact. Architecturally the building is already a decided ornament to the locality; and its usefulness goes without saying. It is hoped that by the 1st of August the Library will be opened to the public, and its benefits made apparent.

In the last report it was said that plans for a similar Library in Wavertree were "in preparation." This Library is now in course of erection, and will, it is hoped, before the year is past, have entered upon its mission of education.

West Derby calls for attention next, and this the Committee are fully prepared to give as soon as the Librarian and his staff have got the two Libraries in course of erection in working order. The purchase of books, their cataloguing, arrangement, and other details necessary to insure success and efficiency mean considerable time and attention by persons familiar with such special work.

The free lectures given in the Picton Hall, William Brown Street, and in halls in various other parts of the City, were increased in 1900 to 116, and the same number was again given during the year just closed. Of the appreciation of these popular and instructive lectures by the general public there is ample evidence in the 54,068 persons who attended them. A list of subjects and lecturers will be found embodied in the report.

The blind of Liverpool still have in Miss Mary L. Hornby a kind and energetic friend. Her many gifts to the Library during the past few years of books for the blind testify to her thoughtful consideration for their mental needs; while the typing under her direction of such books as are bright and entertaining in style and character and modern in subject, evince her wisdom and sympathy with their somewhat isolated position. The following titles indicate some of Miss Hornby's more recent gifts:—Doyle's "The great Boer war," Fitchett's "How England saved Europe," Keane's "The far north," Haggard's "Swallow," Stevenson's "St. Ives," Merriman's "With edged tools," Ruskin's "Sesame and lilies," &c. The provision of books for blind readers was inaugurated in connection with these Libraries so long ago as 1859. Since that date considerable additions have been made, both by gift and purchase, to the collection, which is now probably the largest in any public library in the country.

TABLE I.

SUMMARY OF STATISTICS OF LIBRARY DEPARTMENT.

	Volumes issued.	Weekly, &c. Magazines issued.	Newspaper Visitors.	Lecture Attendance.
Reference Library.				
PICTON READING ROOM:				
Volumes issued.....	246,892			
Magazines and Reviews		135,594		
BROWN LIBRARY:				
Volumes issued.....	138,842			
Monthly and Weekly Magazines		230,087		
Illustrated Papers, issued in volumes				
("The Graphic," "Illustrated				
London News," "Punch," &c.)	46,953			
Directories	106,686			
Specifications of Patents for Inventions	36,447			
Visitors to the Newspapers			303,515	
Lending Libraries (Six).				
Volumes lent for Home Reading	880,511			
KENSINGTON LIBRARY READING ROOMS:				
Volumes issued.....	84,880			
Magazines and Reviews		131,549		
Visitors to the Newspapers			104,748	
EVERTON LIBRARY READING ROOMS:				
Volumes issued.....	78,802			
Magazines and Reviews		161,877		
Visitors to the Newspapers			114,274	
WALTON LIBRARY READING ROOM:				
Volumes issued.....	7,279			
Magazines and Reviews		53,214		
Visitors to the Newspapers			44,816	
Evening Reading Rooms.				
Newspapers, Magazines, and Reviews.....			85,112	
Lectures.				
Attendance				54,068
Totals	1,636,292	712,321	652,465	54,068

TABLE II.

Comparative Statement of issues in the Picton Reading Room :—

Classification.	1901.	1900.
Theology, Morals, and Metaphysics	15,155	18,421
Natural Philosophy, Mathematics, &c.	19,412	19,838
Natural History	8,518	7,793
Science and the Arts	41,052	41,863
History and Biography, &c.	23,722	22,145
Topography and Antiquities	10,049	9,151
Voyages and Travels, Gazetteers, Atlases	22,482	20,691
Collected Works, Essays, &c.	49,862	49,748
Jurisprudence, Law, and Politics	6,792	5,886
Commerce, Political Economy, Social Science, &c.	9,003	9,129
Education and Language	17,437	20,653
Poetry and Dramatic Literature	10,851	10,063
Latin and Greek Classics	2,339	2,730
Encyclopædias, Dictionaries, &c.	10,218	8,422
Totals	246,892	246,533

Shewing an increase over 1900 of 359 volumes.

TABLE III.

Shewing the number and classification of works contained in the Reference Library :—

Classification.	Volumes.
Theology, Morals, and Metaphysics	8,252
Natural Philosophy, Mathematics, &c.	3,318
Natural History	6,720
Science and the Arts	16,340
History and Biography, &c.	14,835
Topography and Antiquities	6,755
Voyages and Travels, Gazetteers, Atlases	6,099
Miscellaneous Literature (principally collected Works, Essays, Reviews, Societies' Proceedings, &c., in volumes)	29,618
Jurisprudence, Law, and Politics	9,845
Commerce, Political Economy, Social Science, &c.	2,827
Education and Language	2,066
Poetry and Dramatic Literature... ..	4,610
Prose Fiction	5,737
Latin and Greek Classics and Translations	1,053
Encyclopædias and Works of General Reference	4,512
Total	122,567

TABLE IV.
LENDING LIBRARIES.

GENERAL STATISTICS.

Volumes issued, &c.	Central.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total.
Volumes issued in Lending Departments	232,259	159,775	145,766	168,919	105,019	77,773	889,511
Volumes issued in General Reading Rooms.....	—	48,922	—	42,989	7,279	—	99,190
Volumes issued in Ladies' Rooms	—	1,741	—	11,979	—	—	13,720
Volumes issued in Boys' Rooms	—	28,139	—	29,912	—	—	58,051
Magazines issued in General Reading Rooms	—	92,455	—	100,847	53,214	—	246,516
Magazines issued in Ladies' Rooms	—	36,037	—	16,340	—	—	52,377
Magazines issued in Boys' Rooms	—	33,385	—	14,362	—	—	47,747
Newspaper Readers in General Reading Rooms	—	107,227	—	96,670	44,816	—	248,713
Newspaper Readers in Ladies' Rooms	—	7,047	—	8,078	—	—	15,125
New Tickets issued	3,569	1,826	1,764	2,199	1,232	854	11,444
Readers on the Books.....	6,853	3,688	3,587	4,687	2,540	1,797	23,152
Books lost or injured and paid for by Borrowers ...	62	14	23	16	14	5	134
Books lost from Lending Departments	3	2	*6	2	—	—	13
Books stolen from Reading Rooms	—	7	—	4	—	—	11
Volumes worn out and withdrawn	41	65	579	91	—	—	776
Volumes worn out and replaced	445	255	434	112	—	—	1,246
Volumes added	661	596	702	600	394	369	3,322
Total volumes in Libraries	14,711	24,694	26,797	16,578	7,196	5,067	95,043

* Stocktaking in July ; it covers a period of two years.

TABLE V.

Showing the classification of volumes issued.

Classification.	Lending Departments.						Reading Rooms.				Total Issues.	
	Central.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total Issued for Home Reading.	Everton Branch.	Kensington Branch.	Walton Branch.		Total Issued in Reading Rooms.
Theology, Morals, and Metaphysics.....	2,535	1,585	1,411	979	663	302	7,475	1,602	752	68	2,422	9,897
Natural Philosophy and Mathematics.....	3,502	1,668	1,663	2,019	1,269	646	10,767	2,333	1,679	602	4,614	15,381
Natural History	2,303	796	941	1,105	680	401	6,286	1,537	1,059	161	2,757	9,043
Science and the Arts	14,391	7,927	7,032	8,921	5,212	3,203	46,686	5,591	4,380	1,001	10,972	*57,658
History and Biography	7,039	3,806	4,704	4,207	2,223	1,936	23,915	4,425	2,846	335	7,606	31,521
Topography and Antiquities	1,899	392	486	631	456	410	4,274	857	665	126	1,648	5,922
Voyages and Travels	4,662	2,113	1,899	1,799	1,408	1,145	13,026	3,831	1,472	391	5,694	18,720
Miscellaneous Literature	3,437	6,571	5,859	6,437	3,291	697	26,292	12,100	7,592	387	20,079	46,371
Jurisprudence, Law, and Politics.....	716	202	120	195	129	86	1,448	1,718	425	22	2,165	3,613
Commerce and Political Economy ..	2,417	1,206	879	968	517	235	6,222	2,103	873	82	3,058	9,280
Education and Language	1,748	761	578	560	303	156	4,106	1,804	704	178	2,686	6,792
Poetry and Dramatic Literature	2,036	484	589	866	356	297	4,628	875	930	115	1,920	6,518
Prose Fiction	183,867	107,821	99,122	114,019	88,512	68,259	661,600	11,322	17,459	3,811	32,592	694,192
Latin and Greek Classics	339	129	112	146	—	—	726	231	119	—	350	1,076
Books for the Blind.....	1,308	—	—	—	—	—	1,308	—	—	—	—	1,308
Books for the Young	—	24,314	20,371	26,067	—	—	70,752	28,473	48,925	—	72,398	143,150
TOTALS.....	232,259	159,775	145,766	168,919	105,019	77,773	889,511	78,802	84,880	7,279	170,961	1,060,472

* Of this total 21,659 were volumes of Music.

TABLE VI.—Shewing classification of Borrowers.

Classification.	Central.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total.
Architects, Builders, and Surveyors.....	24	2	9	19	6	5	65
Artists, Photographers, and Draughtsmen.....	92	13	19	50	5	12	191
Bakers, Butchers, and Grocers.....	61	85	70	104	35	15	370
Boilermakers, Platers, and Riveters.....	10	6	9	12	6	—	43
Bookbinders, Printers, and Stationers.....	153	53	40	67	9	8	330
Bookkeepers, Clerks, and Agents.....	2,482	404	533	637	378	214	4,648
Boot and Shoe Makers.....	18	11	10	8	4	2	53
Box Makers.....	13	4	2	6	—	—	25
Brass, Iron, and Steel Founders.....	21	4	12	17	2	2	58
Bricklayers, Slaterers, and Masons.....	12	12	11	18	7	1	61
Cabinetmakers, French Polishers, &c.....	56	13	18	49	2	3	141
Carpenters and Joiners.....	35	42	65	56	22	7	227
Chemists and Druggists.....	43	11	19	28	6	6	113
Clergymen, Doctors, and Lawyers.....	70	17	14	19	12	14	146
Coach Painters and Builders.....	9	6	9	24	1	3	52
Cooks, Waiters, and Waitresses.....	36	6	6	44	—	13	105
Customs' Officers, Police, Postmen, &c....	76	55	61	136	20	27	375
Domestic Servants.....	11	6	5	21	—	45	88
Dressmakers and Milliners.....	141	37	8	63	12	32	293
Engineers, Fitters, and Machinists.....	117	74	105	97	32	21	446
Farmers and Gardeners.....	3	3	8	5	6	15	40
Firemen.....	7	3	9	11	2	—	32
Hairdressers.....	16	9	15	11	3	—	54
Ironmongers.....	8	3	6	5	7	1	30
Labourers.....	44	69	93	23	20	2	251
Licensed Victuallers, Brewers, & Barmen.....	65	14	9	16	9	2	115
Mariners.....	14	10	18	15	26	6	89
Merchants and Brokers.....	37	7	27	29	10	13	123
Messengers, Office Boys, and Apprentices.....	361	88	178	100	133	33	893
Music Teachers.....	13	4	7	19	4	1	48
Musicians.....	38	10	9	46	2	4	109
Nurses.....	26	9	2	20	16	18	91
Painters, Plumbers, and Gasfitters.....	32	26	36	55	17	7	173
Pattern Makers, Moulders, and Turners....	9	13	28	17	3	2	72
Pawnbrokers.....	4	9	14	9	7	1	44
Schoolmasters and Teachers.....	233	162	65	265	114	104	943
Students and Scholars.....	121	489	95	293	141	114	1,253
Shipwrights, Riggers, and Sailmakers.....	3	6	12	4	2	—	27
Smiths.....	6	22	14	12	8	4	66
Tailors and Drapers.....	130	22	20	74	10	12	268
Telegraphists and Typists.....	118	22	36	55	9	24	264
Tobacconists.....	35	8	—	16	6	1	66
Warehousemen and Storekeepers.....	76	42	56	97	12	4	287
Watchmakers, Jewellers, and Opticians...	21	7	13	13	7	1	62
Miscellaneous.....	141	87	78	68	230	94	698
No occupation (principally females).....	1,812	1,683	1,714	1,934	1,177	904	9,224
Totals.....	6,853	3,688	3,587	4,687	2,540	1,797	23,152

TABLE VII.—EVENING READING ROOMS.

	1901.		1900.	
	Attendance.	Average per Night.	Attendance.	Average per Night.
Chatsworth Street Board Schools ...	25,325	83	25,574	84
Stanley Road Board Schools.....	45,629	151	41,461	137
Wellington Road School.....	14,158	46	12,994	43
	85,112	280	80,029	264

FREE LECTURES.

DELIVERED IN THE PICTON LECTURE HALL, JANUARY TO MARCH, 1901.

BACON, REV. J. M., M.A., F.R.A.S. "In the track of a shadow: personal experiences of recent eclipses," with lantern illustrations.

BULLEN, FRANK T., F.R.G.S. "Romance and reality at sea," with lantern illustrations.

BURSTALL, FRED. H., F.R.C.O., Cathedral Organist, Liverpool. "Mozart: a sketch of his life and works," with musical illustrations.

CROWTHER, HENRY, F.R.M.S. "The scenery, people and legends of Cornwall," with lantern illustrations.

DIBDIN, E. RIMBAULT. "The Magic Carpet: the natural history and philosophy of the world's rivers," with lantern illustrations.

FRASER, J. SCOTT, F.R.G.S. "The Nile Valley from Cairo to Thebes," with lantern illustrations.

GRENSTED, REV. F. F., M.A., Diocesan Inspector of Religious Education. "The dawn of astronomy," with lantern illustrations.

HAY, ALFRED, B.SC., Lecturer on Electrotechnics, University College, Liverpool. "Electric tramways and railways," with lantern illustrations and experiments.

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- PLUMMER, W. E., M.A., F.R.A.S., Director of the Liverpool Observatory, Bidston. "The recent solar eclipse in Spain and Algiers," with lantern illustrations.
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PICTON LECTURE HALL, NOVEMBER AND DECEMBER, 1901.

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- DARCHY, MISS. "Australia: its savages and scenery," with lantern illustrations.
- GASTON, EDWARD PAGE. "Adventures in Mexico and Cuba," with lantern illustrations.
- GASTON, EDWARD PAGE. "The lost races of America," with lantern illustrations.
- GIBSON, R. J. HARVEY, M.A., F.L.S., Professor of Botany, University College, Liverpool. "The building of a skeleton in plant and animal," with lantern illustrations.
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WORKMAN, ALBERT E. "Life and works of Sir Arthur Sullivan," with musical illustrations.

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tion. Kirkdale Voluntary Industrial (Day) Ragged School. Lancashire and Cheshire Entomological Society. Literary and Philosophical Society. Liverpool Institute. Marine Biological Society. Mersey Mission to Seamen. Microscopical Society. Naturalists' Field Club. Peace Society. Penny Savings Bank. Penny Savings Bank Association. Philharmonic Society. Philomathic Society. Royal Infirmary. Royal National Lifeboat Institution. Royal Society for the Prevention of Cruelty to Animals. Sailors' Home. Savings Bank. School Board. School of Science, Technology and Art. Science Students' Association. Seamen's Friend Society. Seamen's Orphanage Institution. Shipwreck and Humane Society. Society for the Prevention of Cruelty to Children. Society of Friends of Foreigners in Distress. St. Andrew's Waterside Church Mission. Sunday School Union. Training School of Cookery. Training Ship "Indefatigable." United Gas Light Co. United Trades and Labour Council. Workshops for Out-door Blind; Liverpool Cathedral Petition Committee; Liverpool Catholic Publishing Co.; Liverpool Medical Officer of Health (E. W. Hope, M.D., D.Sc.), Annual Reports; Liverpool University College; Liverpool University Committee; London and North-Western Railway Co.; London Directory Co.; Neville Lynn; Messrs. Macdonald & Co.; Alexander McKenzie; Messrs. Macmillan & Co.; Manchester Cotton Association; Manchester Geological Society; Manchester Microscopical Society; Manchester Museum, Owens College; Manchester Statistical Society; Manitoba Historical and Scientific Society, Canada; F. P. Marrat; Messrs. Mather & Crowther; J. E. B. Mayor; F. Meeson; Minister of Public Instruction, Melbourne, Australia; Mercantile Marine Service Association, Liverpool; Mersey Conservancy; Mersey Docks and Harbour Board; Meteorological Council, London; Midland Railway Co.; Messrs. Moody & Co.; Vice-Admiral Sir G. S. Nares, K.C.B., F.R.S.; National Anti-Vivisection Society; National Association for the Promotion of Technical and Secondary Education; National Society for the Prevention of Cruelty to Children; J. Birkbeck Nevins, M.D.; Agent-General for New South Wales, London (Henry Copeland); New York State Museum, U.S.A.; University of the State of New York, U.S.A.; Agent-General for New Zealand, London (W. P. Reeves); Nicholson Institution, Leek; North British Railway Co.; North-Eastern Railway Co.; Northern Counties Educational League; Ontario Government Agency, Liverpool (Peter Byrne); Philip R. Owen; Owens College, Manchester; Delegates of the Local Examinations, University of Oxford; H. W. Parker; Messrs. J. & J. Paton; Comptroller of Patents, London; Registrar of Patents, Queensland; Registrar of Patents, Western Australia; Messrs. Kegan Paul, Trench, Trübner & Co.; Peabody Institute, Baltimore, U.S.A.; Messrs. Phillipson & Golder; Lient.-Col. John Pilkington, F.S.A.; Messrs. Sir Isaac Pitman & Sons; W. E. Plummer, M.A., F.R.A.S. (Director, Bidston Observatory); William F. Price; Queen's College, London; Agent-General for Queensland, London (Sir Horace Tozer, K.C.M.G.); W. H. Quilliam; Ragged School Union, London; J. H. Rawlins; T. Mellard Reade, F.G.S., F.R.I.B.A.; Thomas M. Rickman, F.S.A.; Royal Astronomical Society, London; Royal College of Physicians, London; Royal College of Surgeons, London; Royal Colonial Institute; Royal Cornwall Polytechnic Society;

Royal Dublin Society; Royal Institute of British Architects; Royal National Life-boat Institution; Royal Observatory, Greenwich; Royal Society of Canada; Royal Society of London; Royal Society of Victoria, Melbourne, Australia; Royal University of Ireland; W. Clark Russell; J. P. Rylands; St. Bride Foundation Institute, London; St. Mary's Hospital Medical School, London; John Sampson; T. L. Schreiner; Henry Sell; Sheffield Museum; Rev. Walter Sidgreaves, S.J., F.R.A.S.; Prof. F. M. Simpson; Smithsonian Institution, Washington, U.S.A.; Society for the Propagation of the Gospel in Foreign Parts; Society of Accountants and Auditors; Society of Antiquaries of London; Society of Antiquaries of Scotland; E. J. Burgess Sopp, F.R.M.S., F.E.S.; Messrs. H. Sotheman & Co.; South-Eastern and Chatham Railway Co.; Southport Meteorological Observatory; Richard Steel, J.P.; Alderman J. N. Stolterfoht (Chairman, Libraries Sub-Committee, Liverpool); Swedenborg Society; Sydney University; Arthur E. Taylor; L. A. Taylor; College of Science, Imperial University, Tokyo, Japan; Town and County Directories, Limited; Trinity College, London; Union of Lancashire and Cheshire Institutes; United Devon Association; Francis Vacher, F.R.C.S., M.R.C.P.; J. W. Vicars; Victoria University, Manchester; Volta Bureau, Washington, U.S.A.; University College of North Wales, Bangor; University College of South Wales and Monmouthshire, Cardiff; University College of Wales, Aberystwyth; University of Wales, Brecon; James Ward; W. F. Westbrook; Agent-General for Western Australia, London (Sir E. H. Wittenoom, K.C.M.G.); J. A. Wheldon; Henry Whillet; Messrs. Willmer Brothers & Co.; W. H. Williams; Wirral Railway Co.; Major A. C. Yates, F.R.G.S.; Yorkshire Philosophical Society; Zoological Society of London.

The following Periodicals, Newspapers, &c. have been presented regularly by the respective Publishers, &c.:—

Accountant	Civil Service Competitor
African Review	Civil Service Hints
Anglo-Russian	Clubman
Animals' Friend	Concord
Arms and Explosives	Cornish Telegraph
Awake	Cowkeeper and Dairyman's Journal
Bibby's Quarterly	Crescent
Bible Advocate	Decorators' and Painters' Magazine
Board of Trade Journal	Deliverer
British Temperance Advocate	Educational Times
Brotherhood of Locomotive Engineers' Journal	Educational Review
Builders' Reporter	Electrical Engineer
Canadian Gazette	Electrical Investments
Canadian Patent Office Record	Electrician
Cape Argus	English Churchman
Child's Guardian	Englishwoman's Review
Church Family Newspaper	Esmeduna
Church Missionary Gleaner	Estates Gazette
Church Missionary Intelligencer	Examination Guide and Kensington Coaching College Magazine
Church Monthly	Financial Reformer
Church Weekly	Fire and Water
Civil Service Aspirant	Foresters' Miscellany
Civil Service Candidate	Free Life

- Fruit-grower, Fruiterer, Florist, &c.
 Gaelic Journal
 Guild Gazette
 Gwalia
 Herald of Peace
 Herald of the Golden Age
 Hereford Times
 Homeopathic World
 Horological Journal
 Incorporated Accountants' Journal
 Incorporated Society of Musicians,
 Journal of
 In His Name
 India's Women and China's Daughters
 Inventors' Review
 Insurance Agent & Insurance Review
 Irish Times
 Iron and Steel Trades Journal
 Isle-of-Man Examiner
 Journal of the Clerk of Works'
 Association
 Journal of the Royal Statistical
 Society
 Keefe's Civil Service Monthly
 Labour Gazette
 Leaves of Healing
 Liberty Review
 Lichfield Mercury
 Light
 Literary News
 Liverpool Catholic Times
 Liverpool College Old Boys' Magazine
 Liverpool College Upper School
 Magazine
 Liverpool Courier (daily and weekly)
 Liverpool Echo
 Liverpool Express
 Liverpool Institute Schools Magazine
 Liverpool Journal of Commerce
 Liverpool Mercury (daily and weekly)
 Liverpool Porcupine
 Liverpool Post (daily and weekly)
 Liverpool Review
 Liverpool Y.M.C.A. Journal
 Locomotive Engineers' and Firemen's
 Journal
 London Argus
 Machinery Market
 Madame
 Mariner
 Midland News
 Milling
 Mission Field
 Mona's Herald
 Musical Herald
 Nature Notes
 New Century
 New Church Magazine
 New Ireland Review
 Nonconformist Musical Monthly
 Northampton Mercury
 Northern Counties Education League
 Magazine
 Oddfellows' Magazine
 Official Journal of the Patent Office
 Oxford Chronicle
 Paper Maker
 Paper Makers' Circular
 Patents
 Philatelic Chronicle
 Petroleum Review
 Personal Rights Journal
 Positivist Review
 Present Truth
 Preston Herald
 Printers' Register
 Public Health Engineer
 Railway Review
 Ramsey Weekly News
 Reports of Patents, Design, and Trade
 Mark Cases
 Rescue Notes
 Rock
 Round World
 Sanitary Inspector
 Script Phonographic Journal
 Sheffield Weekly Independent
 Shipping World
 Shoe and Leather Record
 Society of Chemical Industry, Journal
 of
 Sphinx
 Stanley Gibbons Monthly Journal
 State Correspondent
 Stationer, Printer, and Fancy Trades
 Register
 Stationery World
 Stonyhurst Magazine
 Student's Journal
 Temperance Chronicle
 Tool and Machinery Register
 Trade Journals' Review
 Trade Marks Journal
 Travel
 Training Ship "Mercury" Magazine
 Two Worlds
 University Correspondent
 Vaccination Inquirer
 Vegetarian Messenger
 Western Daily Press
 Worcestershire Herald
 Zoophilist

PETER COWELL,

CHIEF LIBRARIAN,

THE MUSEUMS.

The Director of Museums furnishes the Forty-Ninth Annual Report upon the CONDUCT and PROGRESS of the Museums.

I.—GENERAL.

THE FREE PUBLIC MUSEUMS comprise:—

(A) the DERBY MUSEUM, of which the nucleus was the collections bequeathed in 1851 to the City, by the Thirteenth Earl of Derby. It contains the *British Collections*, and the general *Zoological*, *Geological*, *Mineralogical*, and *Botanical* Departments, besides which there is an *Aquarium*, containing both Fresh and Salt Water Animals.

(B) the MAYER MUSEUM, the larger part of which was collected and presented to the Corporation in 1867, by Joseph Mayer, Esq., F.S.A. These collections are specially rich in (a) *Egyptian*, *Babylonian*, and *Assyrian Antiquities*; (b) *Mediæval European Ivories*, *Bronzes* and *Illuminated Manuscripts*; (c) the unrivalled *Brian-Faussett Anglo-Saxon Collection*; (d) the *Mather Miniatures*; and (e) the very important *Pottery Collections*, conspicuously rich in Wedgwood and Old Liverpool Wares. Associated with this Museum, as belonging more nearly to the subjects illustrated by it, though not forming to any large extent part of the Mayer Bequest, are (f) the *Ethnographical Collections*, chiefly of barbaric races.

The building, in which these collections are housed, was erected at the cost of the late Sir William Brown, in October, 1860.

The Exhibition Galleries are open free to the public, as under:—

During January, November, and December ..	from 10 to 4
" February	10 to 4-30
" March and October	10 to 5
" April to September	10 to 6
Also on Monday <i>Evenings</i> during January to	" 7 to 10
March, and October to December ...	

The Museums are closed on Sundays and Fridays (except the Fridays of Whit-, Easter- and Christmas-Weeks) throughout the year, as well as on Christmas Day, and days of Public Fast and Thanksgiving.

The Museums were represented by the Director at the British Association, which met at Glasgow under the presidency of Professor Arthur W. Rücker, M.A., D.Sc., LL.D.

Part 2 of Volume III of the *Bulletin of the Liverpool Museums* was issued on 10th May. It contained a description of a new Mongoose from West Africa, by W. E. De Winton, F.Z.S.: an illustrated account of a perforated and distorted Cranium in the Mayer Museum, by Prof. A. M. Paterson, M.D., and F. T. Lovegrove, M.R.C.S.: a paper "On the Age of the Surface Flint Implements of Egypt and Somaliland," and Notes on some Rare Birds in the Lord Derby Museum, by the Director. The issue of Parts 3 and 4 has been unavoidably delayed on account of the extensive alterations going on in the Museums during the year and the extra work necessarily thrown on the Staff by the re-arrangement of those of the New Extension Galleries now made available, as well as by the preparation of the Special Bulletin containing the Report on the Sokotra Expedition. That volume, and also Part 3 of Volume III of the *Bulletin*, it is hoped will be issued shortly.

Since 1896, a period of six years, **45,755 specimens of Natural History** and **6,222 specimens of Ethnography**, totalling close upon **52,000 specimens**, have been added to the collections.

II.—VISITORS.

During the year there has been a considerable increase in the number of visitors to the Museums, compared with that of the previous year, as shown by the averages in the following table:

					1900. (Jan. 1st to May 3rd.) (90 Days)		1901. (262 Days)
Total Visitors	...	...	...	...	95,041	...	304,942
Weekly Average	...	...	...	...	5,002	...	5,864
Daily Average	...	...	...	...	1,056	...	1,163

The attendance of school children under the charge of teachers has been well maintained, considerably over 1,000 children and teachers having availed themselves of the clause in the Education Code, whereby time devoted to instruction in Museums reckons as school attendance. On several occasions school teachers have made use of the Museum theatre to give special lessons to the children—specimens being brought from the Museum cases for the purpose. This is found to be of greater educational value than merely having a general visit with no specific object. In some cases lectures and demonstrations have been given by members of the Staff—arrangements having previously been made with the teachers and masters. On March 9th a special visit to the Museum was made by the Science Section of the Burnley Technical School. A pre-arranged programme was drawn up, and upwards of 100 adults availed themselves of the opportunity. Demonstrations on zoological and botanical specimens were given in the Laboratories and Aquarium, and a lantern lecture on “Life on the Sea-shore” was given in the Museum theatre. In the early part of the year a short course of lectures on “The Collecting and Mounting of Insects” was given fortnightly by Mr. Clubb to the members of the Liverpool Institute “Field and Camera Club,” in the Museum theatre.

Persons desirous of employing the Museums for the purpose of research, reference or sketching may, by application to the Director, and on giving satisfactory references, obtain tickets enabling them to enter on Fridays, when there are special facilities afforded them for study. Tickets were issued, as usual, during the year (chiefly) to Artists and Students of Natural History, Osteology and Dental Anatomy, who have made extensive use of the collections, so far as the condition of the Galleries permitted, on the days the Museums were otherwise closed to the public.

The following, among others, have visited the Museums during the year for the purpose of inspecting the collections or other special object:—J. Liberty Tadd, Philadelphia; A. Halkett, Department of Fisheries, Ottawa; Tasaburo Kawomura, Japan; D. J. Vallance and W. Clarke, Science and Art Museum, Edinburgh; Rev. Charles E. Harthoff; Dr. Paul Mantoux; Consul D. B. Adamson, Iquitos; Rev. Canon Tristram, Durham; T. H. Barker, Chamber of Commerce,

Liverpool: J. Frieman, Warsaw; Prof. Valdemar Schmidt, Copenhagen: Prof. Richnow, Bucharest; J. Allen, Natural History Museum, New York; and Percy E. Newberry.

III.—LECTURES.

Twenty-one Lectures were delivered by members of the Staff on Monday evenings, in the Theatre of the Museums. They were illustrated by specimens from the Museums and by lantern slides. The total attendance at the Lectures was 2,136, a large increase on the last year's attendance.

The following is a list of the subjects:—

A course of six Lectures on "Life on the Sea-shore" was given by the Assistant Curator of the Derby Museum, Mr. Joseph A. Clubb, M.Sc.:—

- Jan. 14th.—"Rock-pools and their Inhabitants." I.
- Jan. 21st.—"Rock-pools and their Inhabitants." II.
- Jan. 28th.—"Some strange Life Histories." I.
- Feb. 4th.—"Some strange Life Histories." II.
- Feb. 11th.—"The Mussel and the Cockle."
- Feb. 18th.—"Sea Squirts."

A course of five Lectures on "Plants that eat Animals" was given by the Assistant in the Derby Museum, Mr. Wm. S. Laverock, M.A., B.Sc.:—

- Feb. 25th.—"The Sun-dews or Nature's Fly-papers."
- Mar. 4th.—"Venus Fly-trap and Aldrovanda."
- Mar. 11th.—"The Butter-worts and the Bladder-worts."
- Mar. 18th.—"The North American Pitcher-plants."
- Mar. 25th.—"The Oriental Pitcher-plants."

A course of five Lectures on "Man of Pre-historic Times" was given by the Assistant Curator of the Mayer Museum, Mr. P. Entwistle:—

- Oct. 14th.—"Man of the earliest Stone Age."
- Oct. 21st.—"Cave Man."
- Oct. 28th.—"Man of the New Stone Age."
- Nov. 4th.—"Cromlechs and Stone Circles."
- Nov. 11th.—"European Lake Dwellings."

A course of five Lectures on "Extinct Monsters" was given by the Assistant Curator of the Derby Museum, Mr. Joseph A. Clubb, M.Sc.:—

Nov. 18th.—"How Fossils are formed."

Nov. 25th.—"Sea Scorpions and Fish Lizards."

Dec. 2nd.—"Dinosaurs—the Dragons of Old Time."

Dec. 9th.—"Dinosaurs and Flying Dragons."

Dec. 16th.—"Some extinct Mammals."

LORD DERBY MUSEUM.

The collections, consequent on the opening of the extended Galleries, will have to be entirely re-arranged.

By the Derby Bequest the Zoological and a considerable part of the Palæontological and the Mineralogical Collections were acquired by the City. The larger part of the original Museum buildings have till now been required to house the Zoological collections—the specimens of birds and mammals being very numerous. Indeed they are far too numerous to be ever exhibited with any educational benefit to the visitor. Since 1894 every moment possible to devote to the work has been employed in reducing stuffed specimens to skins for the Study-collection,—some thousands of birds having been dismantled, as well as a considerable number of *Mammalia*. These reduced specimens will be stored in a series of cabinets, erected on an elevated gallery surrounding the rooms on the upper floor of the Old Museum, for the exclusive use of students.

It is now proposed to exhibit in THE UPPER (HORSE-SHOE) FLOOR of this Museum, commencing with the first room, opening on the right at the top of the main staircase, a series of **types of the main groups and sub-divisions of the Animal Kingdom** (or casts, models, or drawings), showing their structure by dissections or models, and indicating the genetic relationships existing between them and their neighbours, *i.e.*, a Morphological series—"in which," to use Professor Huxley's words, "all prominent forms or types of animals or plants, recent or fossil, should be so displayed as to give the public an idea of the vast extent and variety of natural objects, to diffuse a general knowledge of the results obtained by science in their investigation and classification, and to serve as a general introduction to the

student in Natural Science." The series will commence with the highest animal forms in their culmination in Man, as exemplified in the *Caucasian*, *Mongolian* and *Melanian* Races, [from which point the study of their handiwork may be followed up in the Mayer Museum, as stated below] and descend to the unicellular forms. Thus the Biological series would fall into logical sequence with the Anthropological exhibits in the Mayer Museum. The first room will be devoted to an introductory series of specimens, models and drawings, showing the differences between inorganic and organic objects, between plants and animals, and illustrating the general structure and physiology of animals.

With the recent forms it is intended to associate the extinct (or fossil) remains, so that by studying both together, the evolution of present-time animals may be traced from their vanished ancestors.

Following on this series the Director proposes to arrange the **Mineralogical** and **Geological** collections so as to illustrate the Chemical constitution of the earth: Rock formation: the Deposit, superposition, and succession of Strata: and the Mode of preservation of fossils, showing typical examples of the forms of life which characterised the different geological Ages, with pictorial restorations of the scenery of each great epoch and of the animals which peopled it—a Stratigraphical series.

In the Upper Cross Gallery it is proposed to exhibit the main facts of the **Geographical Distribution** of animals and plants and illustrations of **Protective Resemblance**, **Variation of Species**, and other principles of biology.

It is proposed to arrange in THE LOWER FLOOR, commencing with the first Room of the lower Horse-shoe Galleries opening out of the Main Hall, the Local Collections, in as complete a series as possible, of the animals, the plants, the Geology, Mineralogy, Palæontology and Archæology of the "Local Area," namely, a land and sea area embracing the counties of Lancashire and Cheshire, and the sea, east of the Isle-of-Man—which includes the area also within which the Liverpool Marine Biological and Lancashire Sea-Fisheries Committees operate.

In regard to the Botanical collections, while a typical specimen will be given of each Natural Order with its structure, illustrated by

enlarged papier-maché models (many of which have been already acquired with this view), and by its chief (and specially its locally important) economic products and processes, the main aim will be to form a representative British collection, in which every local plant will, if possible, be displayed with models or photographs illustrative of the habit and habitat of the plant in a state of nature. With this object the Director has caused a large number of specimens to be collected and dried during the past few years by one of his assistants.

The Director has always intended to make this Department as complete a record as possible of the Biological and Geological History of the area, and he will welcome the assistance of all local collectors and students, who may greatly help in making it complete by presenting or offering for purchase perfect specimens from the "local area" which they may collect or possess. In this respect the Liverpool Marine Biological and the Lancashire Sea Fisheries Committees also could and ought to materially assist us. As some of their researches are assisted by grants from such public moneys as the Technical Instruction Vote, and the surplus of the Guarantee Fund raised by Liverpool citizens to defray the expenses of the visit of the British Association, it would be becoming and appropriate that a good set of the specimens so collected should be deposited in the Public Museums, where they can be well seen, and conveniently studied.

THE AQUARIUM.

In regard to the Aquarium, it is intended to enlarge it by the addition of the American Room of the Ethnographical Gallery, as the light admitted by the new window from William Brown Street is insufficient to show properly the class of specimens heretofore exhibited in it.

A. LORD DERBY MUSEUM.

ZOOLOGICAL DEPARTMENT.

(a) GENERAL.

Collecting apparatus and boxes, with preservative fluids for the preservation of specimens, were fitted up and very kindly taken charge of by Mr. E. D. Adamson, H.B.M. Consul at Iquitos, and others who have opportunities for collecting.

The structural alterations, made necessary by the new system of heating and ventilation, have entailed a large amount of work in seeing to the careful removal and conservation of specimens from the numerous cases, which had to be removed to enable the openings for the ventilation inlets and outlets to be constructed.

The series of photographic enlargements, illustrating the various races of mankind, still continues to grow, and there are now upwards of 125 of these anthropological photographs. Further copies have been presented to the British Museum and Cambridge University, where they are highly appreciated.

The Science Cabinets have been distributed to the various Elementary Schools in the City as in former years, and the applications have become more numerous for specimens for object lessons (mainly Natural History), and for the series of Technical Appliances on loan from the Museums. The increase in the applications for Museum specimens has necessitated considerable additions to the loan collections. Gifts of duplicate mounted birds have been made to the Liverpool Institute and Greenbank School in response to applications received.

It is interesting to record the visit of Mr. J. Liberty Tadd, Director of the Public Industrial Art Schools of Philadelphia, to inspect the School Science Cabinets. Mr. Tadd came with the special object of making himself acquainted with our system, and expressed himself very favourably both in regard to the scientific value of the Cabinets themselves and to the arrangements made for circulating them to the Elementary Schools of the City.

The Director has much pleasure in testifying to the care and attention to duty given by all the members of the Staff.

(b) ARRANGEMENT.

This has been dealt with in the preliminary observations.

(c) CONSERVATION.

All the collections on exhibition have been periodically examined, dusted and kept free from moth or other pest. The store cabinets and tanks, containing specimens preserved in fluid, have also been systematically gone over for the purpose of renewing the spirit or

other preservative. The store cabinets have also had constant attention, the entomological collections especially requiring frequent examination.

The work of reducing the duplicate specimens of mounted birds and forming cabinet skins of them for the study collection has been continued.

(d) LOANS.

The following loans of Museum specimens for purposes of study were made during the year:—

Three bird specimens (*Turdus ritiensis*, ♂) were lent to Dr. Lorenz, Vienna.

Seventeen bird skins (larks, partridges, owls, &c., mainly types) were lent to Mr. Hartert, Tring Museum.

Three birds (*Pitta nympba*, *Galinda arenicola* ♂, and *G. macro-rhynca* ♀, types) were lent to Dr. Bowdler Sharpe, British Museum.

Bird specimen (*Haplopedia principalis*) was lent to Count Salvadori, Zoological Museum, Turin.

Bird specimens (*Crithagra rendalli*, ♂ and ♀, types) were lent to Captain G. Ernest Shelley.

(e) PRESENTS.

During the year the Museum Collections have been enriched by a large number of presentations, of which the following deserve special mention:—

A large shell collection, comprising between 3,000 and 4,000 species and upwards of 10,000 specimens from all parts of the world, bequeathed by the late Mrs. Mary Ann MacIver. This collection is especially rich in species of the genera *Oliva*, *Cypræa* and *Conus*, and forms a most valuable addition to our Museum.

A specimen of the rare *Pleurotomaria adansoniana* from St. Lucia; presented by Surgeon-Colonel Archer.

Specimens of living West African Mud-Fishes (*Protopterus annectens*), per Mr. A. Ridyard, Chief Engineer, ss. "Niger."

Collection of Bird Skins, containing 53 species; presented by the Rev. Canon Tristram.

Skins of Weddel's Seal and White Seal, and skull of *Lobodon carcinophaga*, from Victoria Land. Antarctica: presented by Sir George Newnes, Bart., M.P., *ex* "Southern Cross" Expedition.

A large and valuable collection of wax models of flowering plants and fungi, made and presented by Mr. H. E. Heath Smedley, F.L.S.

(f) EXCHANGES.

Specimens of the West African Mud-Fish (*Protopterus annectens*) were given to Mr. Andrew Halkett, Department of Fisheries, Ottawa; to Prof. Ramsay Wright, Toronto; and to Mr. G. A. Boulenger, F.R.S., British Museum, for subsequent exchanges.

During the past year thirty enlargements of heads of Caucasian and Mongolian types have been sent to the British Museum, and thirty-four to the Anthropological Museum (Prof. A. Macalister), Cambridge University.

(g) ACQUISITIONS.

INVERTEBRATES.

Protozoa.

Forty Lantern Slides of Radiolaria (D. 20. 5. 1901. 49); purchased. Models in Wax of *Vorticella* sp., *Paramœcium* sp. and *Amœba* sp. (D. 23. 9. 1901. 25-27); presented by Mr. H. E. Heath Smedley, F.L.S.

Coelenterata. (Zoophytes, Sea Anemones, etc.).

A number of Sea Anemones, living (*Actinia equina*), from Douglas, I.O.M. (D. 29. 7. 1901. 3); presented by Mr. P. Entwistle.

About 200 Sea Anemones, living, from Bangor, N. Wales (D. 23. 9. 1901. 16); purchased for the Aquarium.

Model in Wax of *Hydra viridis* (D. 23. 9. 1901. 24); presented by Mr. H. E. Heath Smedley, F.L.S.

Colonies of *Hydrallmania palcata* and of *Halecium halecinum*, dredged from the Estuary of the Mersey, off N.W. Lightship (D. 23. 10. 1901. 9 and 10).

Echinoderms. (Star-fishes, Sea-urchins, etc.).

Five Cake Urchins (*indet.*) from near Cape Town (D. 28. 1. 1901. 1); presented by Dr. Lee.

Vermes. (Worms, etc.).

Annelid (*indet.*) dredged from the Estuary of the Mersey, off N.W. Lightship (D. 23. 10. 1901. 5).

Polyzoa.

Specimen of *Crisia chburnea*, dredged from the Estuary of the Mersey, off N.W. Lightship (D. 23. 10. 1901. 8).

Arthropoda.**Crustacea.** (Crabs, Lobsters, etc.).

Cray-fish (*Cambarus* sp.), from North Carolina, U.S.A. (D. 29. 7. 1901. 2); presented by Mr. Alex. Maxwell.

Crab (*Dromia vulgaris*), living, from Newquay, Cornwall (D. 23. 9. 1901. 18); presented by Captain Jos. Hicks *per* Ald. Maxwell H. Maxwell.

Three Slender Spider Crabs (*Stenorhynchus tenuirostris*), one Cleanser Swimming Crab (*Portunus depurator*), one Shrimp (*Crangon vulgaris*), and two Prawns (*Pandalus annulicornis*), dredged from the Estuary of the Mersey, off N.W. Lightship (D. 23. 10. 1901. 2, 3, 6, and 7).

Extinct Sea Scorpion (*Pterygotus* sp.) (lantern slide of) (D. 18. 11. 1901. 1); purchased.

Nine Small Crustaceans (*indet.*) (D. 21. 12. 1901. 8). Brought from the Director's Room with no reference, and now referred to this year.

Tracheata. (Insects, Spiders, etc.).

Cicada (*Cicada gigas*) (D. 25. 2. 1901. 1); presented by Mr. Alexander Maxwell.

Thirteen specimens of mimetic Lepidoptera:—*Medasina creataria*, *Elphos scolopaica*, *Euphros rhadamanthus*, *Euripus halitherses* ♀, *Danaus chrysippus*, *Hypolimnas misippus* ♂, ♀, *Papilio philenor*, *Limenitis ursula*, *Eusemia maculatrix*, *Camphylotes histrionicus*, *Papilio arcturus*, *Dercas verhuelli*, from Assam and other localities (D. 25. 2. 1901. 2-13); purchased.

Beetle (*Dynastes* sp.), from Para, (D. 25. 3. 1901. 1); presented by Mr. Eduardo J. Studden.

Seven Spiders (*indet.*), three Bees (*indet.*), one Hymenopteron (*indet.*), two Hemiptera (*indet.*), eleven Chrysalises (*indet.*), twenty-four Beetles (*indet.*), thirty-eight Larvæ (*indet.*), and one Dung Beetle, all living, chiefly from Ash and Hickory, in timber yard, Bootle (D. 20. 5. 1901. 1 *et seq.*): presented by Mr. Wm. Swan.

One Mantis (*indet.*), one Cockroach (*indet.*), five Spiders (*indet.*), one Spider with nest and young (*indet.*), twelve Beetles (*indet.*), and two Hemiptera (*indet.*), from Para (D. 20. 5. 1901. 30-47): presented by the Liverpool School of Tropical Medicine.

Spider with nest and eggs (*sp. indet.*) from the Cape of Good Hope (D. 24. 6. 1901. 1): presented by Mr. Wm. Chambers.

Moth (*indet.*) from Kamloops, Rocky Mts., Brit. Columbia (D. 24. 6. 1901. 2): presented by Mr. Thomas A. Shackleton.

One hundred and thirty-five Specimens of Lepidoptera (*indet.*) from Paraguay (D. 29. 7. 1901. 1): presented by Mr. W. P. Steer.

Two New Forest Burnet Moths (*Zygæna meliloti*, Esp.) from Ireland (D. 29. 7. 1901. 4): presented by Mr. J. Pownall.

Piece of American Ash containing wood-boring Beetles (*sp. indet.*) (D. 29. 7. 1901. 5): presented by Councillor Craigie Williams.

Two Mud Wasps and Nests (*sp. indet.*) from Virginia, U.S.A. (D. 29. 7. 1901. 6): presented by Mr. R. Weaver.

Larva of Privet Hawk Moth (*Sphinx ligustri*, L.) from Curdworth, near Birmingham (D. 26. 8. 1901. 1): presented by Mr. C. Rogers.

Two Bees (*sp. indet.*) from Bebington (D. 26. 8. 1901. 1): presented by Mr. R. M. Adam.

Larvæ of the Puss Moth (*Cerura vinula*), from Pemberton, near Wigan (D. 26. 8. 1901. 3), presented by Mr. T. Roby: from Newsham Park, Liverpool (D. 26. 8. 1901. 4), presented by Mr. Holmes; and (D. 26. 8. 1901. 5), presented by Miss D. Caton respectively.

Three Larvæ (*indet.*), one Beetle (*indet.*), four Moths (*indet.*), three Lantern Flies (*indet.*), and three Spiders (*indet.*), from within 50 miles of Iquitos (D. 23. 9. 1901. 1-6 and 8), and one Wasp's nest (*indet.*) from Leticia, Peruvian Frontier (D. 23. 9. 1901. 7): presented by Mr. D. B. Adamson, H.B.M. Consul at Iquitos.

Longicorn Beetle (*Acanthocinus ædilis*, L.) ♂, from Wigan (D. 23. 9. 1901. 9); presented by Mr. Ralph Unsworth.

One Lantern Fly (*indet.*), one Mantis (*indet.*), and five Hymenoptera (*indet.*), from Iquitos (D. 23. 9. 1901. 10-12); presented by Mr. Beal.

Two Beetles (*indet.*), from Newsham Park (D. 23. 9. 1901. 13); presented by Mr. P. Entwistle.

Moth (*indet.*) and a Chrysalis (*indet.*) from timber at the Docks, Liverpool (D. 23. 9. 1901. 14 and 15); presented by Mr. Wm. Swan.

Two Moths (*indet.*), from Basingstoke (D. 23. 9. 1901. 17); presented by Master C. A. Barlow.

Saw Fly (*Sirex gigas*), living, from Athol Street, Liverpool (D. 23. 9. 1901. 19); purchased.

Dragon Fly (*sp. indet.*) from Eastham Ferry Gardens (D. 23. 9. 1901. 20); presented by Mr. T. Boughey.

Forest Bug (*Piezodorus purpuripennis*)? from Holyhead (D. 23. 9. 1901. 21); presented by Mr. D. McIlgorm.

Spider (*indet.*) living, from Broadgreen (D. 23. 9. 1901. 22); presented by Mr. F. P. Marrat.

Spider (*indet.*) living (D. 23. 9. 1901. 23); presented by Mr. Frank W. Buzzard.

Two exhibition preparations of the metamorphoses of the Honey Bee (*Apis mellifica*), together with two specimens each of Carniolian variety, Italian variety, Carniolian and Italian cross, and German, Carniolian and Italian cross, also exhibition preparation of *Gastrophilus equi* (D. 4. 11. 1901. 1 and 2); purchased.

Case of mimetic insects set to show protective resemblances arranged with natural surroundings:—Two *Catocala sponsa*, two *Amphidasis betularius*, two *Boarmia crepuscularia*, two *Catocala fraxini*, one *Retinia bonoliانا*, one *Penthina variegata*, two *Moma orion*, two *Æstynomus ædilis*, three *Edipoda cærulescens* and two *Holonychus acanthopus*, from Germany (D. 4. 11. 1901. 3-12); purchased.

Wasp's nest (D. 21. 12. 1901. 1). Brought from the Director's Room, with no reference and now referred to register of this year.

Four blown Larvæ. Goat Moth (*Cossus ligniperda*, Fab.), Leopard Moth (*Zeugera æsculi*, L.), Peacock butterfly (*Vanessa io*, L.), and *Argynnis paphia*, L. (D. 21. 12. 1901. 2-5) : purchased. Brought from the Director's room with no reference and now referred to register of this year.

Mollusca. (Shells, etc.).

Two shells of a Pinna from W. Africa (D. 28. 1. 1901. 2) : presented by Mr. A Ridyard.

Shell (*Pleurotomaria adansoniana*) from St. Lucia, West Indies (D. 20. 5. 1901. 48) : presented by Surgeon-Colonel Archer.

Large collection of Shells, consisting of some hundreds of Genera and several thousand species, from all parts of the world (D. 20. 5. 1901. 50) : bequeathed by the late Mrs. Mary Ann McIver, of Calderstones, Allerton.

Fossil Shell (*indet.*) from about 37 miles from Coquimbo, Chili (D. 24. 6. 1901. 3) : presented by the Captain of the s.s. "Garrick."

Valve of Shell (*Unio* sp.) and quantity of Shells and Gravel (*indet.*) from Iquitos (D. 23. 9. 1901. 25) : presented by Mr. D. B. Adamson, H. B. M. Consul at Iquitos.

Slug (*Limax* sp.) killed in the act of eating earthworm, from Ewell, Surrey (D. 7. 10. 1901. 1) : presented by Dr. Percy Rendall.

One Cuttle-fish (*Sepioloa atlantica*) and shell and animal of *Pecten opercularis*, dredged from the Estuary of the Mersey off N.W. Light-ship (D. 23. 10. 1901. 1 and 4).

Land Snail (*Limax maximus*) fixed in expanded condition (D. 2. 11. 1901. 1) : presented by Mr. J. A. Clubb.

Five Shells, viz., *Natica amplia*, *Orula orum*, *Terebra maculata*, *Strombus lentiginosus*, and *Fusus inconstans*, cut to show various sections (D. 29. 11. 1901. 1-5) : presented by the Linnæa Naturhistorisches Institut, Berlin, per Dr. A. Müller.

Four Shells (*Haliotis planibrata*) from Dixcove, Gold Coast Colony, West Africa (D. 9. 12. 1901. 1) : presented by Mr. A. Ridyard.

Two Shells (*Bulimus* sp. and *Haliotis* sp.) (D. 21. 12. 1901. 6 & 7) : brought from Director's room with no reference, and now referred to register of this year.

Fishes.

Mud-fish and eight mud blocks containing Mud-fish (*Protopterus annectens*, Owen) from McCarthy Island, River Gambia, W. Africa (C. 20. 5. 1901. 1); presented by Mr. A. Ridyard.

Fish (*indet.*) from Para (C. 20. 5. 1901. 4); presented by the Liverpool School of Tropical Medicine.

Tench (*Tinca vulgaris*, Cuv.) from Knowsley (C. 23. 9. 1901. 3); presented by Mr. Coupland, City Angling Association.

Carp (*Cyprinus carpio*) from Newsham Park (C. 23. 9. 1901. 4); presented by Mr. Arthur Jones.

Two Dog Fishes (*Acanthias vulgaris*) alive, (C. 23. 10. 1901. 1), caught on a line in the Estuary of the Mersey from Corporation barge "Beta."

Capsule of Mud-Fish (C. 21. 12. 1901. 1); brought from the Director's Room without reference and now referred to register of this year.

Amphibians.

Toad and Frog (*indet.*) from Para (C. 20. 5. 1901. 2 and 3) presented by the Liverpool School of Tropical Medicine.

Tree Frog (*indet.*) from Iquitos (C. 26. 8. 1901. 1); presented by Mr. Beal.

Two tree Frogs (*indet.*) and one Toad (*indet.*) from Iquitos (C. 23. 9. 1901. 1 and 2); presented by Mr. D. B. Adamson, H. B. M. Consul at Iquitos.

Reptiles.

Snake (*sp. indet.*), living, from Ramleh, near Alexandria, Egypt (B. 14. 1. 1901. 1); purchased.

Two Snakes (*indet.*) and one Lizard (*indet.*), from Para (B. 20. 5. 1901. 3 and 4); presented by the Liverpool School of Tropical Medicine

Grass Snake (*Tropidonotus natrix*), living, from Sefton Park, Liverpool (B. 18. 6. 1901. 1); presented by Mr. John Dickens.

Small Snake (*sp. indet.*), living, found among Bananas (B. 13. 7. 1901. 1); presented by Mr. Fletcher.

Young Alligator (*Caiman niger*), living, from the Upper Amazon (B. 6. 8. 1901. 1); presented by Captain Good.

Chameleon (*C. taeniobronchus*, Smith), living, from South Africa (B. 7. 8. 1901. 1); presented by Mr. Samuel Gaunt.

Fourteen Snakes (*indet.*) in spirit from Iquitos, Brazil (B. 14. 8. 1901. 1); presented by Mr. Beal.

Skin of Snake (*indet.*) (B. 15. 8. 1901. 1): presented by Mr. A. Forman.

Five Snakes (*indet.*); one Gecko (*indet.*); one Pond Tortoise (*indet.*); one large Lizard (*indet.*); one small Snake (*indet.*), and four Lizards (*indet.*) (B. 23. 9. 1901. 1-6); two Snakes (*indet.*) (B. 23. 9. 1901. 9); two Snakes and two Lizards (*indet.*) (B. 23. 9. 1901. 11-12), and four Snakes (*indet.*) (B. 23. 9. 1901. 14), all in spirit, from Iquitos, Brazil; presented by Mr. D. B. Adamson, H.B.M. Consul at Iquitos.

Chameleon (*C. basiliscus*) living, from Alexandria (B. 25. 9. 1901. 1); presented by Mr. J. Shearer.

Terrapin (*Chrysemys rubriventris*) young, living, from Savannah Rice Fields, Savannah River, U.S.A. (B. 10. 10. 1901. 1); presented by Master Edward Billington.

Chameleon (*Chamæleon vulgaris*) living, from Smyrna (B. 11. 11. 1901. 1); presented by Mr. Chas. Hewitson, 70, King's Road, Bootle.

Twenty-two Lantern Slides of Extinct Reptiles (B. 18. 11. 1901. 1-21); purchased.

Terrapin (*Chrysemys picta*) young, living, from Canada (B. 23. 11. 1901. 1); presented by Mr. Chas. H. Jacobs, 32, Egerton Road, Liverpool.

One young Turtle (alive) (*indet.*) from Iquitos, S. America (B. 30. 12. 1901. 1); presented by Mr. McTaggart, 25, Ponsonby Street, Liverpool.

Birds.

Eight birds, including one Hawk (*indet.*) and three Kingfishers (*indet.*) from Cameroons, W. Africa (B. 28. 1. 1901. 1-8); presented by Mr. S. Smith, per Mr. A. Ridyard.

Seven Bird Skins from North Queensland:—*Ptilorhis victorie*, Gould, ♂; *Psophodes crepitans lateralis*, North, ♂; *Orthonyx spaldingi*, Rams., ♂ and ♀; *Zosterops ramsayi*, ♀; *Platycercus elegans nigrescens*, Rams. ♂; *Tectonornis dentiostriis*, Rams., ♂ (B. 25. 2. 1901. 1-6); presented by Mr. H. C. Robinson.

American Teal (*Querquedula* sp.) (B. 25. 2. 1901. 7); presented by Mr. B. Heywood Jones.

Collection of Bird Skins containing 89 specimens representing 53 species from New Guinea and South America (B. 25. 3. 1901. 1-53); presented by the Rev. Canon Tristram.

Steamer Duck (B. 27. 3. 1901. 1); purchased.

Patagonian Goose ♂, (B. 11. 5. 1901. 1); presented by the Parks and Gardens Committee of the City Council.

Six Jackdaws, one Sparrow Hawk and one Kestrel (B. 14. 5. 1901. 1-3); purchased.

Pair of Thrushes, nest, and four young, and Crested Wren, from Meiford, near Welshpool (B. 15. 5. 1901. 1 and 2); presented by Mr. P. Layton.

Toucan (*sp. indet.*) and one Pigeon (*sp. indet.*), from Para (B. 20. 5. 1901. 1 and 2); presented by the Liverpool School of Tropical Medicine.

Swan's Egg (B. 29. 5. 1901. 1): presented by the Wirral Railway Co., per Mr. Burns.

Abnormal Chicken (B. 4. 6. 1901. 1); presented by the City of Dublin Steam Packet Co.

Snowy Owl and case of Sea Birds, containing 2 Herring Gulls (*Larus argentatus*), 3 Guillemots (*Uria troile*), 1 Black Guillemot, 3 Razor Bills (*Alca torda*), 4 Puffins (*Fratercula arctica*), 1 Cormorant (*Phalacrocorax carbo*) and 1 Shag (*Phalacrocorax graculus*) (B. 11. 6. 1901. 1-8); bequeathed by the late Mrs. Frances Alice Benbow, Crosby.

Crested Dove from the Aviary, Stanley Park (B. 18. 6. 1901. 1); presented by the Parks and Gardens Committee of the City Council.

Five Spotted Flycatchers (*Muscicapa grisola*) ♂, ♀ and 3 juv. from Meiford, near Welshpool (B. 25. 6. 1901. 1): presented by Mr. P. Layton.

Gannet (*Sula bassana*) and Heron (*Ardea cinerea*) from Rosshire (B. 27. 6. 1901. 1 and 2): presented by Mr. Edw. Airey.

Two Bird Skins (*Pitta kuhni* and *Dammeria henrici*) from Teoor Island and Wulur Dammer Island (B. 28. 6. 1901. 1 and 2); purchased.

Four nestling Flycatchers (B. 2. 7. 1901. 1): presented by Mr. P. Layton.

Two Plover's Eggs (B. 29. 7. 1901. 1): presented by Ald. Stolterfoht.

Thirteen Birds (*indet.*) from Iquitos (B. 23. 9. 1901. 7, 8, 10 and 13), and three Bird Nests from Leticia, Peru Frontier (B. 23. 9. 1901. 15); presented by Mr. D. B. Adamson, H.B.M. Consul at Iquitos.

Parrot (*Platygeercus browni*) (B. 24. 9. 1901. 1.); purchased.

Four bird Skins:—One *Anous stolidus* ♀; two *Sterna* sp., and one *Motacilla* sp. ♂ imm. from the Bay of Bengal (B. 7. 10. 1901. 1-3); presented by Dr. Percy Rendall.

One Lesser black-backed Gull (*Larus fuscus*) ♀ (B. 15. 10. 1901. 1), one Greater black-backed Gull (*Larus marinus*) ♂, and one Guillemot (*Uria troile*) ♀ from the Estuary of the Mersey (B. 23. 10. 1901. 1 and 3): collected and presented by Captain Griffiths, Corporation barge "Beta."

One Greater black-back Gull (*Larus marinus*) ♂ and one Herring Gull (*Larus argentatus*) (B. 23. 10. 1901. 1a & 2), collected by Mr. Wm. Mason, and presented, *per* Captain Griffiths, Corporation barge "Beta."

Hyacinthine Macaw (*Anodorhynchus hyacinthinus*) ♀ (B. 26. 11. 1901. 1); purchased.

Collection of fifty-eight Bird Skins from New Zealand, consisting of seventeen genera, representing twenty-six species:—*Apteryx haasti* ♂ ♀ ad. and ♂ ♀ imm.; *A. occidentalis*, ♂, ♀ ad.; *A. australis*, ♂, ♀ ad.; *A. owenii* ♂, ♀ ad.; *Oxydromus australis*, ♂ ♀ ad. and ♂ ♀ imm.; *O. greyi*, ♂ ♀ ad. and ♂ ♀ imm.; *O. earli* ♂, ♀ ad.; *Diomedea bulleri*, ♂, ♀ ad.

D. salvini ♂, ♀ ad.; *Majaqueus gouldi* ♂, ♀ ad.; *M. equinoctialis*, two nestlings; *Nesonetta aucklandica* ♂ ♀ ad. and ♂ ♀ imm.; *Creedion carunculatus*, ♂, ♀ ad.; *C. cinereus* ♂, ♀ ad.; *Harpa norae-zealandiae*, ♂ ad.; *Platyercus unicolor*, ♂, ♀ ad.; *Carpophaga norae-zealandiae*, ♂, ♀ ad.; *Circus gouldi*, imm.; *Podiceps cristatus*, imm.; *Botaurus pectirostris*, ♂, ♀ ad.; *Miro dannefordi*, ♂, ♀ ad.; *M. australis*, ♂ ♀ ad. and ♂ ♀ imm.; *Prion ariel* ♂ ad. and nestling; *Turnagra crassirostris*, ♂, ♀ ad.; *Phalacrocorax carunculatus*, nestling; *Aptenodytes longirostris* ♂ ad. (B. 20. 12. 1901. 1-26); purchased.

One Bird Skin (*Craicticus gymnocephala*?) from North Borneo? (B. 21. 12. 1901. 1); purchased. Brought from the old office without reference, and now referred to register of this year.

Mammals.

Skin and skull of Malabar Squirrel (*indet.*) ♀, (A. 5. 1. 1901. 1).

Skins of Weddel's Seal (*Phocophoca weddelli*) and White Seal, and skull of *Lobodon carcinophaga*, from Victoria Land, Antarctica (A. 28. 1. 1901. 1-3): presented by Sir George Newnes, Bart., M.P., ex "Southern Cross" Expedition.

Skin of *Anomalurus* sp. from N'Sevi, Landana, S.W. Africa (A. 28. 1. 1901. 4); presented by Mr. H. Hirst, per Mr. A. Ridyard.

Squirrel (*sp. indet.*), living, from Fernando Po, W. Africa (A. 28. 1. 1901. 5); presented by Mr. T. H. Haddock, per Mr. A. Ridyard.

Skin and skeleton of Red River-Hog (*Potamochoerus porcus*) ♂; skin and skeleton of Black Panther (*Felis pardus*) (A. 25. 3. 1901. 1-2); purchased.

Field Vole (*Arvicola agrestis*) *semi-albino* var. from Curdworth, Warwickshire (A. 25. 3. 1901. 3); presented by Mr. C. Rogers.

Mounted Moose Head (*Alces machlis*) (A. 22. 4. 1901. 1); bequeathed by the late Mrs. Frances Alice Benbow, Crosby.

Hedgehog (*Erinaceus europæus*) from amongst timber at the Docks (A. 20. 5. 1901. 1); presented by Mr. Swan.

Two Bats (*indet.*) from Para (A. 20. 5. 1901. 2); presented by the Liverpool School of Tropical Medicine,

Ruffled Lemur (*Lemur varius*) from Madagascar (A. 20. 5. 1901. 3); purchased.

Human Skull from Kivato Island, New Guinea (A. 24. 6. 1901. 1); purchased.

Young Elephant Skull with Tusks (A. 29. 7. 1901. 1); presented by Mr. A. Forman.

Water Vole (*Arvicola amphibius*) young ♂, from Curdworth, Warwickshire (A. 26. 8. 1901. 1); presented by Mr. Cecil Rogers.

One Monkey (*indet.*); two Bats (*indet.*) from Iquitos, Brazil (A. 23. 9. 1901. 1 and 2); presented by Mr. D. B. Adamson, H.B.M. Consul at Iquitos.

Hedgehog (*Erinaceus europæus*) half-grown ♂, from Penyfodd, Flintshire (A. 23. 9. 1901. 3); presented by Mr. D. Hibbert.

Fifteen lantern slides of Extinct Mammals (A. 18. 11. 1901. 1-15); purchased.

Skin of African squirrel (*indet.*); Squirrel's nest from neighbourhood of Lagos, West Coast of Africa, and seven skins of squirrels from North Borneo, including *Tupaia picta*; *T. dorsalis*; *T. melanura*; *Hyomys suillus dorsalis* and *Sciurus whiteheadii* (A. 21. 12. 1901. 1-9); purchased. Brought from the old office with no reference and now referred to register of this year.

Two photographs of series of skulls of Gorilla, etc. (A. 21. 12. 1901. 10); presented by Mr. R. L. Garner. Brought from old office with no reference and now referred to register of this year.

BOTANICAL DEPARTMENT.

The acquisitions in this department are as follows:—

One hundred and twenty Herbarium specimens, including twenty *Eucalypti*, and forty-four specimens of Fruits, *ex* National Herbarium of New South Wales (E. 22. 4. 1901. 1-164); presented by the Botanic Gardens, Sydney, N.S.W.

One Fruit of Bread Fruit from W. Africa (E. 20. 5. 1901. 1); presented by the Rev. Archdeacon D. C. Crowther, Pastorate Mission, Bonny, *per* Mr. A. Ridyard.

Nine small Lime Fruits from Degama, New Calabar (E. 20. 5. 1901. 2); presented by Mr. A. Ridyard, Chief Engineer, S.S. "Niger."

Small group of Fungi (*indet.*) from a Timber Yard, Bootle, (E. 20. 5. 1901. 3); collected and presented by Mr. Wm. Swan.

About five hundred and forty specimens of Plants, representing about one hundred and seventy species (E. 31. 5. 1901. 1-8; 6. 6. 1901. 1-10; 20. 6. 1901. 1-53; 29. 6. 1901. 1-20; 4. 7. 1901. 1-23; 10. 7. 1901. 1-22; 3. 8. 1901. 1-19; 6. 9. 1901. 1-13; 14. 9. 1901. 1-23; 27. 9. 1901. 1-27); collected for the Local Herbarium by Mr. Wm. S. Laverock.

Three Herbarium specimens (*Lepidium perfoliatum*; *Amsinckia lycopsoides*; *Physalis alkekengi*) from Formby, Lancs. (E. 8. 6. 1901. 1-3); collected and presented by Mr. Robert Craig.

Thirty models in wax of flowering plants and parts of flowering plants, including a life-size model of *Rafflesia arnoldi*, and two hundred and forty-five models of Fungi, representing about one hundred and thirty species (E. 23. 9. 1901. 1-10; 21. 12. 1901. 1-142); made and presented by Mr. H. E. Heath Smedley, F.L.S.

Three small pieces of Fossil Wood from Saltburn-on-Sea, Yorkshire (E. 25. 11. 1901. 1); collected and presented by Mr. William Spensley.

About seventy specimens of dried plants, representing about thirty species, from Bermuda (E. 25. 11. 1901. 2-32); collected by Mr. H. B. Small, and presented by Mr. Robert Powell.

Fungus (*indet.*) (E. 9. 12. 1901. 1); presented by Mr. P. W. Atkin.

Four specimens of Wallflower (*Cheiranthus cheiri*, L.), from Carnarvon Castle, and a Violet (*Viola*, sp.) from Hoylake (E. 10. 12. 1901. 1-2); collected and presented by the Director of Museums.

"Cone" of the Silver Tree (*Leucodendron* sp.) from Table Mountain, Cape Colony (E. 31. 12. 1901. 1); presented by Mr. W. Walthew. (Omitted from last report).

A collection of American Mosses, containing about 140 species, and several other specimens, found with no register number and now referred to register of this year (E. 31. 12. 1901. 2-4, &c.).

MINERALOGICAL AND GEOLOGICAL DEPARTMENT.

The following are the acquisitions in this Department:—

Seven specimens of Minerals from New South Wales and Tasmania (F. 28. 1. 1901. 1-5); presented by Mr. James MacLeod.

Over one hundred specimens of Rocks and Minerals from the excavations for the new Liverpool Reservoir near Prescott (F. 6. 5. 1901. 1-9; 30. 5. 1901. 1-4; 10. 6. 1901. 1-8; 20. 6. 1901. 1-3; 27. 6. 1901. 1-5; 6. 7. 1901. 1-7; 1. 8. 1901. 1-2; 4. 9. 1901. 1-2; 25. 9. 1901. 1-4; 3. 10. 1901. 1-3; 14. 10. 1901. 1; 8. 11. 1901. 1-6; 28. 11. 1901. 1-2); collected by Mr. Wm. S. Laverock.

Six pieces of Quartz from the Gold Coast (F. 20. 5. 1901. 1); presented by Mr. T. Addequay, Cape Coast Castle, *per* Mr. A. Ridyard.

One piece of banded Carbonate of Lime from the 7 ft. mine, West Leigh Collieries (F. 20. 5. 1901. 2); presented by Mr. Stephen Nelson.

About sixty specimens of Minerals from various localities (F. 23. 5. 1901. 1-13, &c.) ; presented by Mr. Alexander Sparrow.

Large slab of grey calcareous Sandstone with ripple-like markings, from Ince Hall Collieries, Wigan (F. 29. 7. 1901. 1); presented by Councillor J. S. Harmood Banner.

Collection of Marbles and other specimens found with no register number and now referred to register of this year (F. 31. 12. 1901. 1-28).

THE AQUARIUM.

The Aquarium continues to be one of the chief attractions of the Museum; special interest being taken in the Mud, the Walking and the Electrical Cat Fishes.

Our efforts to keep in good health and condition the various tropical animals, have proved fairly successful, but the want of proper accommodation for living Mammals (Monkeys, etc.) necessitates the removal of them when received to the Zoological Gardens, London. The warm water tanks for the accommodation of West African Fishes are altogether inadequate, both the mud-fishes and electric cat fishes suffering from the small space available for them,

Important donations of West African species have been made from time to time by Mr. A. Ridyard, Chief Engineer of the S.S. "Niger."

From year to year specimens of the Rainbow Trout (*Salmo irideus*) have been hatched and reared in the small Fish Hatchery in the Aquarium. In April last Mr. Clubb stripped two of the Rainbow Trout living in the Aquarium, successfully fertilizing the eggs, which in due time hatched out, and some of the young are now upwards of five inches in length.

By the kind co-operation of the Sanitary Sub-Committee and of the City Engineer, arrangements have been made for the periodical supply of sea water for the salt water tanks, from the Mersey Estuary, by means of the Corporation barge "Beta." This is a great improvement on the filtered water from the salt water baths, and we are now able to keep marine forms alive in our tanks for considerable periods. Our thanks are due to Captain Griffiths of the "Beta," who has been indefatigable not only in supplying us with water when required, but also in obtaining for us many specimens of interest. It is hoped to carry on dredging operations whereby specimens of marine life will be obtained for our British Collection.

The following species have been exhibited alive during the year, those with an asterisk being alive at the date of this report:—

Fresh Water Hydræ * (*Hydra viridis* and *H. fusca*); Sea-Anemones The Crass * (*Telia crassicornis*); Plumose Anemone * (*Actinoloba dianthus*); Beadlet * (*Actinia equina*); Horse-leech * (*Hæmopsis vorax*); Fresh-water Polyzoa (*Cristatella mucedo*, **Plumatella repens*, *Lophopus crystallinus*); Edible Crab * (*Cancer pagurus*); Common Shore Crab * (*Carcinus maenas*); Hermit Crab * (*Pagurus bernhardus*); Spider Crab (*Stenorhynchus rostratus*); Slender Spider Crab (*Stenorhynchus tenuirostris*); Cleanser Swimming Crab (*Portunus depurator*); Shrimp (*Crangon vulgaris*); Prawn (*Pandalus annulicornis*); **Palaemonetes varians*; Pecten (*P. opercularis*); Cuttle-fish (*Sepiola atlantica*); Fresh-water Eel * (*Anguilla vulgaris*); Loch Leven Trout * (*Salmo levenensis*); Rainbow Trout * (*Salmo irideus*); Gold Carp * (*Carassius auratus*); Crucian Carp * (*C. carassius*); Common and Mirror Carp * (*Cyprinus carpio*.); Black Bass; Three-spined Stickleback * (*Gasterosteus aculeatus*); Fresh-water Gudgeon * (*Gobio fluvialis*); Tench * (*Tinca vulgaris*); Roach *

(*Leuciscus rutilus*): Pike * (*Esox lucius*): Perch * (*Perca fluviatilis*): Indian Serpent-head (*Ophiocephalus punctatus*): North American Cat-fish * (*Ambloplites catus*): Central American Fresh-water Fish * (*Ikeros facetus*): Paradise Fish * (*Polyacanthus viridi-auratus*): Siamese Fighting Fish * (*Betta pugnax*): Electric Cat-fish * (*Malapterurus electricus*): African Mudfish * (*Protopterus annectens*): Walking Fish * (*Periophthalmus koeleuteri*): the Calabar Polypterus (*Calamoichthys calabaricus*): Sole * (*Solea vulgaris*): Whiting (*Gadus merlangus*): Spiked Dog-fish * (*Acanthias vulgaris*): Common Frog * and Tadpoles (*Rana temporaria*): Natterjack Toad (*Bufo calamita*): Common Toad * (*Bufo vulgaris*): Italian Toad * (*Bufo vulgaris*): Crested or Great Water Newt * (*Triton cristatus*): Common or Smooth Newt * (*Molge vulgaris*): Alligator Terrapin * (*Chelydra serpentina*): West African Tortoises (*Testudo calcarata* and *sp. indet.*: Sternotheres * (*Sternotherus adansonii*): Young Terrapins (*Chrysemys picta* and *C. rubriventris*): Young Turtle * (*sp. indet.*): Snakes (*sp. indet.*): Ringed Snake (*Tropidonotus natrix*): Green Lizard * (*Lacerta viridis*): Chameleons (*Chameleleo basiliscus*, *C. taeniobronchus*, and *C. vulgaris*): West African Crocodiles * (*Mecistops cataphractus* and *sp. indet.*): Alligator (*Caiman niger*, *juv.*): W. African Squirrel * (*sp. indet.*).

SUMMARY OF ACQUISITIONS.

Zoological.

Protozoa	...	...	43 Species	...	...	45 Specimens.
Cœlenterata	...	...	8	„	...	10 „
Echinodermata	...	...	1	„	...	5 „
Vermes	...	...	2	„	...	2 „
Arthropoda (Crustacea)	...	...	8	„	...	19 „
Arthropoda (Tracheata)	...	...	150	„	...	303 „
Mollusca	...	...	4000	„	...	10,000 „
Fishes	...	...	6	„	...	14 „
Amphibians	...	...	5	„	...	6 „
Reptiles	...	...	54	„	...	71 „
Birds	...	...	144	„	...	242 „
Mammals	...	...	44	„	...	50 „
			4,465			10,767

Botanical.

Plants ... 647 Species. ... 1209 Specimens.

Geological and Mineralogical.

Rocks and Minerals... 203 Specimens.

The aggregate number of specimens acquired by the Derby Museum during 1901 is thus 12,179, compared with 4,458 acquired in 1900.

B.—MAYER MUSEUM.*(a)* GENERAL.

The Mayer Museum, which contains a very valuable collection of Antiquities, Ethnography, and Pottery, besides a large assemblage of objects which may be classed under the heading of Art, possesses a great many specimens which there has been no room as yet to adequately exhibit.

As to this Museum, the Director proposes to arrange the various specimens according to the Races whose handiwork they are; that is, under the three great ethnic divisions of the globe, namely, the **Caucasian** (white), the **Mongolian** (yellow), and the **Melanian** (black) Races.

The **Mongolian** (the Chinese, Japanese, and Malayan, &c.) Gallery would occupy the upper floor of the Mayer Museum.

The objects of **Caucasian** origin (practically those of the civilised races, and, of course, more numerous than the others) will be placed in the Main Hall and its surrounding balcony.

The Anthropology of the **Melanian** (African, Melanesian, Australian, &c.) peoples, will be located in the Mayer basement and the adjoining Ethnographical Gallery now containing these general collections.

Owing to the continued alterations taking place in several of the exhibition rooms throughout the year, visitors have not been able to have the same access to the exhibits as hitherto.

A further series of Egyptian Antiquities from the Royal tombs at Abydos, and those in the immediate neighbourhood, as well as from the Greco-Roman branch, has been received from the Committee of the Egypt Exploration Fund.

Through the kindness of Major-General H. G. Robley, his collection of objects illustrative of the Maoris of New Zealand has remained on exhibition during the year.

To the continued interest in the Ethnographical section illustrative of the native West African industries, customs, &c., taken by Mr. A. Ridyard, Chief Engineer of ss. "Niger," and to friends on the coast who have contributed through him, the collections have been enriched by numerous highly interesting and valuable donations. Messrs. Elder Dempster & Co. have, as in previous years, kindly allowed all objects for the Museums' collections to be brought by their steamers to Liverpool freight free.

The interesting sheets of Hieratic papyri, relating to the robbery of tombs in the XXth Egyptian Dynasty, have been lent for study to Percy E. Newberry, Esq., at the London University.

Under the new scheme of re-arrangement, the collection of Egyptian Antiquities is being removed to the Main Hall of the Museum (previously occupied by the British collections), and is being arranged in chronological order, as far as the size of objects permits.

A large totem pole, from the Haida Indians, of Queen Charlotte Islands, 39 feet 6 inches in height, received in the early part of the year, has been erected in the basement of the Mayer Museum.

The following photographs and enlargements, made by the Assistant Curator, have been sent to the undermentioned investigators to assist in their studies, or to illustrate works on which they may be engaged:—

Saxon urn, inscribed, from Eltham; model hand, used to hang out at the Chester fairs, and an English wine bottle, found in Vernon Street, Liverpool, to the Editor of "County Histories"; pair of Irish gold head ornaments, to M. Salomon Reinach, Paris; group of carved adzes from the Hervey Islands, to Dr. Frobenius, Leipzig.

(b) LOANS AND DEPOSITS.

The collection of New Zealand Ethnographical objects formed by Major-General H. G. Robley has remained on exhibition during the past year.

Two manuscripts (1) "Treatise on Moral Philosophy," by S. Thomas Aquinas, German, 15th century (12,037), and (2) Portion of the History of Rome, by Eutropius, Italian, A.D. 1528 (12,068), have been lent for palæographical study to the Librarian, University College, Liverpool.

Three leaves of a papyri in the Hieratic characters, Nos. 11,162 and 11,186, of the XXth dynasty, have been lent to Percy E. Newberry, Esq., for study at University College, London.

A request from His Excellency the Duke de Loubat, Paris, for permission to reproduce, at his cost, the celebrated Mexican Codex (No. 12,014), known as the Fejérváry or Mayer Codex, as one of the series being published by him, was granted by the Museum Committee, and for that purpose the volume was sent to him at Paris (March 9th), at the Bibliotheque Nationale, and after reproduction was safely returned to the Museum (October 4th), accompanied by a copy of the reproduction.

(c) EXCHANGES.

Twenty-four eolithic flint implements (28. 1. 1901. 47-70), from the plateau at South Ash, Kent, received from Mr. R. D. Darbishire in exchange for a few duplicate flint flakes from the Eastern Desert, Egypt.

Four palæolithic flint implements (22. 4. 1901. 302-305), from Warren Hill, Icklingham; Santon Downham; and ballast pit, near Kennet Station, Suffolk; also a flint scraper (22. 4. 1901. 306) from Icklingham, received in exchange from Mr. James R. Corder for nine duplicate flint implements from the Eastern Desert, Egypt.

A large collection of Peruvian and other American Ethnographical specimens (22. 4. 1901. 1-262) from the Field Columbian Museum, Chicago, U.S.A., in exchange for duplicate Egyptian flint implements from the Eastern Desert. The collection contains

examples of woven bags, pouches, fillets, aprons, mummy wrappers of various materials and designs, slings, painted grave tablets, sepulchral crosses, cane boxes, spindles and staves from a mummy pack, spindles and spindle-whorls, bowls made from gourds, earthenware water jars, ear studs from the heads of false-headed mummies, fruit, shells, corn, wooden cone, &c., &c., all from tombs at Ancon, Peru. With this collection was also received, as part of the exchange, a group of prehistoric pottery vessels and flint implements (22. 4. 1901. 263-301) from graves in Arkansas and Missouri, U.S.A.

Casts of Ancient Egyptian flint bracelets (28. 1. 1901. 45-46) from the originals in the Oxford Museum were received in exchange for duplicate implements from the Eastern Desert, Egypt.

A series of trade amulets and charms (28. 3. 1901. 20-41), in glass, &c., made in Bohemia for export to Africa, India, and the South Sea Islands, was received from Mr. Edward Lovett in exchange for duplicate Egyptian flint implements from the Eastern Desert, New Guinea shell bracelet (25. 1. 98. 101) and shell nose sticks (25. 1. 98. 107 and 109).

Ethnographical specimens from Borneo (26. 8. 1901. 1-122) consisting of hats, shields, war jackets, baskets for various purposes, waistbands, rice bowls, rice stirrers, chop-sticks, case for feathers, swords, flute, gourds, tobacco boxes, bamboo boxes, flint and steel, armlets, earrings, spoons, peg-top, pipes, necklaces, cigarette papers, palm leaf cape, child's head squeezer, cap, fish-trap, leg bands, Jew's harp musical instrument, rat gouge, and cane suspender for skulls, was received from the British Museum in exchange for duplicate Egyptian flint implements from the Eastern Desert.

A stone tapa-beater (25. 1. 98. 28) from Taupota, New Guinea, was sent (October 10th) to Dr. A. B. Meyer, Dresden, for a future exchange.

(d) ACQUISITIONS.

(1.) GENERAL.

Fac-similé of the Mayer or Fejérváry Codex, reproduced for, and presented by M. Le Duc de Loubat (14. 10. 1901. 83).

(2.) CERAMICS.

No acquisitions which can be classed under this head have been received during the present year.

(3.) ETHNOGRAPHY.

PRE-HISTORIC:—

Flint knives, saw, arrowhead, scraper, and flake (25. 3. 1901. 2-7), from El Arish, Palestine; purchased.

Whetstone (21. 10. 1901. 3), two bone pins (21. 10. 1901. 4), eight flint implements (21. 10. 1901. 5), from the Leasowe shore, collected and presented by Mr. C. Roeder.

Eleven flint cores (21. 10. 1901. 11), from Cass-na-Awin, and Ronaldsway, Isle of Man; collected and presented by Mr. C. Roeder.

A small collection of flint implements (21. 10. 1901. 12-19), comprising hammer-stone, cores, scrapers, flakes, arrowhead, &c., from the Neolithic settlement at the Red Noses, New Brighton; purchased.

Twenty-seven palæolithic flint implements, (14. 11. 1901. 1-27) from Broome, Dorset; presented by Mr. R. D. Darbishire.

MELANIAN RACE.

Africa.—West and South-west Africa:—

List of specimens collected and presented by Mr. A. Ridyard, Chief Engineer, ss. "Niger" (Elder, Dempster & Co.):—

Large basket (20. 5. 1901. 8), from Bathurst, River Gambia.

From Sierra Leone:—Bamboo water bottles (28. 1. 1901. 1-2), gourd water bottle (28. 1. 1901. 3), wooden horn (28. 1. 1901. 4), used by the Mendi carriers during the Ashantee campaign, 1900: basket (5. 12. 1901. 2); carved juju (20. 5. 1901. 4), from the town of Tobiah, interior of Sherbro country.

From the Gold Coast:—

Native chair (23. 12. 1901. 1), made by the Susus, Sherbro: pair of gourd calabashes, with poker work designs, made by the Susus (5. 12. 1901. 1.); small earthenware country pot (5. 12. 1901.

3.), Lagos: wooden drum (5. 12. 1901. 4), Cape Coast Castle: wooden soup ladle (20. 5. 1901. 1), the handle carved in form of an animal, from Accra: earthenware cooking pot (20. 5. 1901. 3), Accra: knife and sheath (5. 12. 1901, 5), Dahomey.

Niger Coast Protectorate:—

Three knives, with brass handles and leather sheaths (28. 1. 1901. 6-8), Ilorin, Nupé: piece of native tanned leather (28. 1. 1901. 9), Ilorin, Nupé: basket and lid of plaited grass, worked with stained leather (20. 5. 1901. 2), Egga, northern Nigeria: rudely carved wooden figure (20. 5. 1901. 5), Degama: four grass mats (20. 5. 1901. 7), Degama: native loom and appliances, with mat partly woven on it (1. 11. 1901. 1), and three specimen mats of various designs as woven on the above loom (1. 11. 1901. 2), from Opobo.

From the Cameroons:—

Wooden fan (28. 1. 1901. 5), with burnt design, Rio del Rey: two quivers of arrows (28. 1. 1901. 13-14): bow and spear (28. 1. 1901. 15), Yonde, Batanga: wooden spoon (20. 5. 1901. 6), Bakana.

Fernando Po:—

Basket and Lid, painted (28. 1. 1901. 23), from Laka.

Portuguese Congo:—

Fetish for thunder (28. 1. 1901. 10), from N'kaka, Mayombi: medicine for rain (28. 1. 1901. 11), from N'kutu, Mayombi: basket in three compartments (28. 1. 1901. 12), Cabenda: wooden fetish figure, 'Mangaca' (24. 6. 1901. 3), Landana: wooden fetish, in form of an animal (24. 6. 1901. 4), Landana: fetish (24. 6. 1901. 6), Landana: fetish (24. 6. 1901. 5), Landana.

Congo River:—

Lid of a basket (28. 1. 1901. 18), Matadi: earthenware water bottle (28. 1. 1901. 19), Binda: wooden trumpet (28. 1. 1901. 20), animal-shaped bell, Loango: plaited grass (?) basket, lid and tray (28. 1. 1901. 21), Mossamedes: bush cat's tail, used as a fly-flap (28. 1. 1901. 22), Mossamedes.

Miscellaneous:—

Roots 'abeshie' for yellow fever (20. 5. 1901. 10); roots 'boboshey' (20. 5. 1901. 11); roots, 'egirro,' for bile or biliousness (20. 5. 1901. 9).

Collected and presented by Mr. A. Forman, Rio del Rey, *per* Mr. A. Ridyard:—

Earthenware pipe heads, with grotesque head at the base (28. 1. 1901. 24-25), gourd rattle, with burnt decoration (28. 1. 1901. 25*a*), cast metal pipe head (29. 7. 1901. 1), all from Bali, Cameroons; ivory war trumpet (29. 7. 1901. 2), from the Congo.

The following specimens have been presented *per* Mr. A. Ridyard: Female fetish painted figure (28. 1. 1901. 26), from Rio del Rey, by Mr. G. E. McAuley; two plaited baskets (28. 1. 1901. 27-28), from Fernando Po, by Mr. J. D. Maysmor.

Three plaited baskets (28. 1. 1901. 29-31), two wooden bells worn by dogs when hunting (28. 1. 1901. 32-33), fetish in form of a bell for 'big sickness' (28. 1. 1901. 34), fetish in form of a small bell for 'small sickness' (28. 1. 1901. 35), four wooden spoons, variously carved (28. 1. 1901. 36-39), three women's belts made of strands of plaited hide (28. 1. 1901. 40-42), native rat-trap (28. 1. 1901. 42*a*), all from N'Sevi, Landana, collected and presented by Mr. H. Hirst, *per* Mr. A. Ridyard.

Model of a canoe, with figures, &c., complete, and painted (28. 1. 1901. 43), from the Cameroons, presented by Mr. A. E. Christian; knife (28. 1. 1901. 44), from Bosoko, Upper Congo River, presented by Mr. J. S. Samuel, Boma: sifter (20. 5. 1901. 12), wooden soup ladle (20. 5. 1901. 13), the handle carved in form of a snake: hat (20. 5. 1901. 14), with ornamental leather bands, earthenware soup plate (20. 5. 1901. 15), earthenware cooking pot (20. 5. 1901. 16), basket (20. 5. 1901. 17), pair of leather sandals (20. 5. 1901. 18), pair of leather slippers (20. 5. 1901. 19), carved gourd drinking cups (20. 5. 1901. 20-21), all from Accra, Gold Coast, and presented by Mr. E. W. Quartey Papafio, Accra, *per* Mr. A. Ridyard.

Painted wooden drum (20. 5. 1901. 24), from the Gold Coast, presented by Mr. F. H. Fearon, *per* Mr. A. Ridyard.

Wooden stool (20. 5. 1901. 26), two pair of carved calabashes (20. 5. 1901. 27-28), from the Gold Coast, presented by Mr. S. P. Longdon, *per* Mr. A. Ridyard.

Knife and sheath (5. 12. 1901. 6), from Gambaga, north Kumasi country, presented by Mr. A. B. Josiah, *per* Mr. A. Ridyard.

Wristlet (5. 12. 1901. 7), worn by King Prempeh, of Kumasi, presented by Mr. James J. Kuofi, *per* Mr. A. Ridyard.

Ivory horn (20. 5. 1901. 22), "said to be 150 years old, blown in olden times at the juju skull house at Bonny, whenever the annual worship of Ikuba was on. It was never blown except when a human sacrifice was offered. This worship was abolished in 1865, when the Mission was established at Bonny, and this horn delivered up" (D.C.C.); presented by the Rev. Archdeacon D. C. Crowther, Bonny, *per* Mr. A. Ridyard.

Paddle-shaped juju (20. 5. 1901. 23), called "Oru," owned by a fisherman, and by him consulted before setting out to fish in order to ensure success. The paddle is in form of an alligator, the object of worship at Bakana, Bonny. This juju was delivered up to the Pastorate Mission, Bonny, by the owner on becoming a Christian: presented by the Rev. Archdeacon D. C. Crowther, Bonny, *per* Mr. A. Ridyard.

Totem-like juju (20. 5. 1901. 29), from the Ibibio country, between Kiva Ibo and Cross River; collected and presented by Mr. A. A. Whitehouse, Eastern Divisional Commissioner, Niger Coast Protectorate, Bonny, *per* Mr. A. Ridyard.

Large wooden shield, covered back and front with rattan (25. 3. 1901. 8); knife (25. 3. 1901. 9); knife (25. 3. 1901. 10), open worked and wooden handle; barbed iron spear (25. 3. 1901. 11), from the Upper Congo River; purchased.

Knife (25. 3. 1901. 12), unusual shaped blade and iron butt; axe (25. 3. 1901. 13); barbed spear (25. 3. 1901. 14); arrow, with iron head and cane shaft, feathered (25. 3. 1901. 15); two arrows (25. 3. 1901. 16-17); two rolls of native tobacco (25. 3. 1901. 18); from the Congo River; purchased,

Red earth (25. 3. 1901. 19), from a village near Mayumba, used by the women on marriage to rub their bodies with; purchased.

Metal armlet (26. 8. 1901. 126); metal charm, in form of a Neolithic celt (26. 8. 1901. 127); seven metal celt-shaped charms or amulets (25. 2. 1901. 1-7), from Benin City; purchased.

Ten photographs (23. 12. 1901. 2) of Central African natives, copied from R. Buckta's originals; presented by the Director of Science and Art Museum, Edinburgh (Abaka ♂ and ♀, 2 Niam Niam ♂ and ♀, 4 Schuli ♂, Akka girl, 2 Bari ♀ 2 Shilluk ♂, Bisharien Arab, ♀ Schukurieh Arab, Mombutto neg. 2 ♀ and Niam Niam ♀).

Melanesia.—Solomon Islands:—

Native model in wood of a canoe (28. 1. 1901. 71); purchased.

Polynesia.—Sandwich Islands:—

Fan (24. 6. 1901. 1) of plaited reed, and two pieces of orange and white coloured tapa cloth (24. 6. 1901. 2); presented by Mr. Stafford Heapy, Honolulu.

MONGOLIAN RACE:—

America.—South:—

A selection of objects (23. 9. 1901. 1-11), from the Indian tribes of the Upper Amazon, collected and presented by Consul D. B. Adamson, as follows:—

Pottery bowl, showing the method of 'building up' the vessel by the coiling process, and the materials used in the making of such vessels, as follows:—Bark, used calcined and mixed with sand to form a clay, yellow and white clay for 'slipping' the grey vessels, black glaze (?) used to coat the inside of the vessels (applied hot), varnish applied to the outside of the completed vessel, fish-bone rasp for finishing off the coils, Cocama Indians; earthenware smoker for smoking rubber, Cocama Indians; net, with pith floats and stone sinkers; feather fan, Napo Indians; piece of tapa cloth: bamboo tube, containing Wourali poison; creeper cord, used for tying down house thatches; material used in the making of fibre-string: the leaves, raw fibre, waste ribs of leaves, brush made from the waste

ribs, string made from the fibre, and the net made from the string, from Iquitos: six arrows: paddle (imperfect): fruit, the juice of which is used for staining the body, from Iquitos.

North:—

Totem Pole, carved on a giant cedar (*Thuja gigantea*). The pole is now 39 feet 6 inches high, and with the original buried base may have been some 8 to 10 feet longer. The back is hollowed out. The post is surmounted by a group of three sitting figures, wearing 'chiefs' hats' (skil), which indicates the number of potlatches, or feasts, given by the owner. The figures below represent the Bear (Hoorts) eating a Frog; below this again is a head with a chief's hat, and still lower is illustrated the story of the Bear (Hoorts) and the Hunter (Towats); on one side is a small head, and below this a figure of the Wolf, and on either side of the opening for the doorway into the house are totemistic designs. From the Haida Indians, Queen Charlotte Islands (20. 5. 1901. 31); purchased.

A collection (9. 12. 1901. 1-45) of N.W. American specimens, from the Kawkiutl and Haida Indians, were acquired by purchase, as follows:—household chest: hat of twined spruce roots: gambling sticks: stone mortar: large plain copper: spoon, made from the horn of the mountain sheep: two wooden soap spoons: wooden dish, inlaid with opercula: halibut hook: cod hook: carved sea otter club: seal or sea otter spear: two small coppers: pendants: adze: stone adze-head: two paint brushes: carved stone sledge hammer—from the Haida Indians: raven mask: hamatsas head ring: singing master's baton: wolf mask: painted ceremonial spear: wooden whistle: brass armlets: necklace of *Dentalium indianorum*: throwing stone: wooden cradle: spindle and whorl: doctor's rattle: bone chopper: bone knife: knife made from a deer bone: stone hammer: bark baler: fish-rake: salmon spear-head: paddle of yellow cedar: cloak of cedar bark: rain cape of cedar bark—from the Kawkiutl Indians: spindle and whorl of maple wood: cup, made of birch bark: two matmakers' needles: and grooved wooden implement, used in matmaking.

Japan:—

One hundred masks of the characters in the "No" drama, modelled in plaster, by *Iwai Kuaisetu*, A.D. 1788 (20. 5. 1901. 32): a

takotsubo, a vessel used by fishermen in catching cuttle-fish. The name of the fisherman is inscribed on the vessel, "*Naka Ichisuke, of Shokowa Street*" (20. 5. 1901. 33); eight Fuchi and Kashira, of the Goto school, A.D. 1440-1512 (20. 5. 1901. 34-37); sixty-four Menuki, or sword ornaments, in various metals, Goto school, A.D. 1440-1512 (20. 5. 1901. 38); quiver of arrows made of boar's skin, and bound in leather (20. 5. 1901. 39); framed series of 48 tablets, illustrative of various lacquer processes (20. 5. 1901. 40); framed series of 44 tablets, illustrative of lacquer processes for sword scabbards (20. 5. 1901. 41); framed drawings of a robe box of ancient lacquer (20. 5. 1901. 42); porcelain incense burner (23. 9. 1901. 13); purchased.

Photograph (23. 12. 1901. 3) of a Sakai slave boy, aged 15 years, from Kelantan, Siam-Malay States: presented by the Director of Science and Art Museums, Edinburgh.

CAUCASIAN RACE.

Egypt.—

A selection of Egyptian Antiquities (14. 10. 1901. 1-62), from the excavations at the Royal and other Tombs at Abydos, were received from the Committee of the Egypt Exploration Fund, as follows:—Clay sealings from pottery jars; cylinder jars, with name of King Qa; flint arrow-heads; limestone stelæ; worked flints; model granaries; part of a set of model funeral offerings in copper; beads of amethyst and carnelian; figure of Osiris; slate palettes, &c., &c.

A selection of late Egyptian Antiquities (3. 12. 1901. 1-41) of the Greco-Roman Period, found in the Fayûm, by Messrs. Hogarth, Grenfell and Hunt, during the winters of 1895-6, 1898-99, 1900-01; presented by the Egypt Exploration Fund (Greco-Roman branch).

Ushabti (20. 5. 1901. 46), Egyptian, XXVIth Dynasty; received from Executors of Mrs. M. A. MacIver.

Ancient Egyptian necklace (26. 8. 1901. 123) of carnelian and amethyst beads, of the XIIth Dynasty; string of green-glazed cylinder beads (26. 8. 1901. 124) of the XXIIInd Dynasty; ushabti sepulchral figure (26. 8. 1901. 125) of the XXIIInd Dynasty; presented anonymously.

Malaysia.—

Set of thirty-two topeng masks (24. 6. 1901. 8-39), in carved wood, painted, from Kampong Djagai, near Buitenzorg, Java, and used in scenes from Wayang Purwao, Ramajana, Brata Yha, &c.; chest (24. 6. 1901. 7) and accessories (24. 6. 1901. 40-62), used with the set of topeng masks; purchased.

Dancing doll, Burmese (14. 10. 1901. 82); purchased.

Europe.—

Figures of a man and woman (26. 8. 1901. 128-129), made of tow and wood, the hands and faces modelled in earthenware, and painted. These figures were made by Neapolitan artists for the representation of the Nativity at Christmastide; purchased.

Fragments of pottery (21. 10. 1901. 1), cup-stone (21. 10. 1901. 2), whetstone (21. 10. 1901. 3), parts of shears (21. 10. 1901. 7), nails (21. 10. 1901. 8), iron fish-hooks (21. 10. 1901. 9), and fragments of pottery (21. 10. 1901. 10), from the Cheshire Shore, collected and presented by Mr. Charles Roeder.

Primitive scythe-sharpener (20. 5. 1901. 30), from Anglesea, N. Wales; purchased.

Rushlight holder (29. 10. 1901. 1) and tripod rushlight holder (29. 10. 1901. 2); presented by Mrs. Lloyd.

Box, made out of bark (20. 5. 1901. 43), Russian; two painted wooden spoons (20. 5. 1901. 44-45), Italian (?); received from the Executors of Mrs. M. A. MacIver.

SUMMARY OF ACQUISITIONS.

Ethnography	933
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HENRY O. FORBES,

DIRECTOR.





STUDENTS AT WORK- WALKER ART GALLERY.

WALKER ART GALLERY.

A quarter of a century has almost passed since the opening of the Walker Art Gallery. On September 6th next it will have attained its Silver Anniversary. The Curator regards this as a fitting time to place on record the results of its operations so far.

Since the opening of the Gallery in 1877, the Corporation has acquired between seven and eight hundred works of art, including purchases, gifts, bequests and works deposited: the money value, estimated for the purpose of insurance, amounts to over £100,000. The Gallery having been built by the munificence of the late Sir A. B. Walker, Bart., and the pictures purchased being the outcome of the profits on Exhibitions, the whole, both the building and its contents, has been acquired by the City without cost to the ratepayers.

The Collection is now esteemed as being the finest Gallery of Modern Art out of the Metropolis. The quality of the works acquired has attracted the favourable notice of the art world, and from year to year there has been a growing demand for privileges to reproduce examples in art magazines, &c., with the result that the Collection has attained a high reputation, not only in the United Kingdom, but on the Continent and in America.

During the past year the Committee have granted permission for the reproduction of 110 works. Mr. Richard Brown, of Liverpool, has published a considerable number of carbon prints of the principal works, and Messrs. Eyre & Spottiswoode, of London, besides their Illustrated Catalogue of the Collection, have also published reproductions, by the "Rembrandt" process, in various sizes, which are circulated throughout the kingdom through the medium of the printsellers. Messrs. Cassell & Co. have included coloured reproductions in their series of "The Nation's Best Pictures," and the publication, in monthly parts, of the "Hundred Best Pictures," by Messrs. Charles Letts & Co., includes works from the Permanent Collection.

A very gratifying result of the establishment of the Walker Art Gallery has been its influence upon other cities and towns in the United Kingdom. Following the example of Liverpool, 43 Art Galleries, mostly under Municipal control, have been instituted since 1877 (see list appended). Of this number, 18 hold annual Exhibitions. At the end of the Liverpool season a large number of works are transferred to other towns where exhibitions are held, and by these means additional facilities are afforded for the inhabitants to educate themselves by visiting the local Galleries, and the artists have a further opportunity of meeting with patrons among the wealthy of the respective districts. Most of the Galleries are conducted on similar lines to those of the Liverpool Gallery, and have very closely followed its forms and regulations. The Committee have at all times been willing to afford such information as might be useful to other Municipalities which have undertaken the erection of Galleries, both as regards construction, mode of lighting, material and colour of walls, with methods adopted for the hanging of pictures.

As regards the Liverpool Autumn Exhibition, the Committee have every reason to feel satisfied at the eminently successful results of their efforts to make it the most important in the Kingdom. Both locally and nationally it is regarded as only second to the Royal Academy itself, whilst as regards the artistic merit of the works exhibited, it stands pre-eminent. Rising artists look to admission to it as a recognition of their art status, and those who have "won their spurs" are well pleased to avail themselves of the opportunity of seeing their productions in well-lighted Galleries, and amidst the most favourable surroundings.

The large attendances at the Autumn Exhibitions (unprecedented in the provinces) and the number of pictures sold, prove that the public evince great interest in the annual collections thus brought together for their advantage and art education.

During the past season the daily admissions, by single payment, numbered 61,816, in addition to 3,268 season tickets. Added to those visiting the Exhibition by payment, there were 10,316 pupils from the schools of all denominations, invited to inspect the collec-

tion free of charge. The Curator is gratified to notice a marked improvement in the appreciation shown by those juvenile visitors since the opening of the Gallery. This is particularly noticeable among the School Board children and others of the poorer classes, whose conduct reflects the utmost credit upon those who have charge of their education.

Perhaps the most gratifying feature of the operations of the Gallery has been in forming and improving the public taste in art. Since the opening of the Gallery 5,815 works have been sold at the Autumn Exhibitions, and the purchases made by the public show that they have exercised good judgment in their selections. The same may be claimed for the Committees who have from time to time made purchases for the Permanent Collection. 126 Gallery pictures have been bought from the Autumn Exhibitions, and although some of them have been adversely criticised, the result has proved that laymen of artistic taste are as well fitted to judge of works of art as experts, who are at times narrow and limited in their views.

The hanging space in the Gallery is quite inadequate for the proper display of the Collection, and it is to be hoped that an enlargement of the building will soon be made such as will enable the City Art treasures to be seen to advantage.

CHARLES DYALL,
CURATOR.

VISITORS TO THE GALLERY.

During the year the Gallery was open 310 days, excluding Sundays. The number of visitors was 433,854, or a daily average of 1,353. This total includes 65,084 visitors to the Autumn Exhibition, besides 14,477 pupils of schools of various denominations, who were admitted free. In addition, the total attendance on Sundays was 14,384, being an average of 423.

PICTURES LENT.

The following Works have been loaned to Exhibitions, &c., as under :—

TITLE.	ARTIST.	LENT TO.
"Lorenzo and Isabella"	Sir J. E. Millais, Bart., P.R.A.	Glasgow International Exhibition.
"Kenilworth"	J. Constable, R.A.	" " "
"Baalbec"	D. Roberts, R.A.	" " "
"A Summer Night"	Albert Moore	" " "
"And when did you last see your Father.?"	W. F. Yeames, R.A. ...	" " "
"Love's Baubles"	Byam Shaw	Venice International Art Exhibition.
"A Reverie"	F. Dicksee, R.A.	Nottingham Corporation.
"In time of War"	T. Faed, R.A.	Widnes Corporation.
"Faithful unto Death"	Sir E. J. Poynter, P.R.A.	" "
"The Alps by Night"	Wm. Stott, of Oldham.	Mrs. Stott, for special exhibi- tion of her late husband's Works, in London.
"And when did you last see your Father.?"	W. F. Yeames, R.A. ...	Whitechapel Art Gallery, London.
"Lorenzo and Isabella"	Sir J. E. Millais, Bart., P.R.A.	Birmingham Corporation.
"The Alps by Night"	Wm. Stott, of Oldham.	Mrs. Stott, for special exhibi- tion of her late husband's Works, in Manchester.
"In time of War"	T. Faed, R.A.	Oldham Corporation.

REPRODUCTIONS.

The following privileges for the reproduction of Works in the Permanent Collection have been granted during the year. In no case is the privilege granted an exclusive one, the Committee reserving to themselves the right to afford facilities to other applicants at their discretion :—

APPLICANT.	PICTURE.	ARTIST.
Henry Graves & Co., Ltd.	"Maiwand—Saving the Guns"	R. Caton Woodville.
J. Caswall Smith	"Venus and Anchises"	Sir W. B. Richmond, R.A.
E. H. Williams	"A Summer Night"	Albert Moore.
A. G. Temple	"An Idyll"	M. Greiffenhagen.
"	"Ruth and Naomi"	P. H. Calderon, R.A.
"	"The Expulsion of Adam and Eve"	A. T. Nowell.
"	"Maiwand—Saving the Guns"	R. Caton Woodville.
"	"O Mistress Mine"	E. A. Abbey, R.A.
"	"The Punishment of Luxury"	G. Segantini.
George Bell & Sons	"Eventide"	Prof. H. von Herkomer, R.A.
Harnsworth Brothers	"Ruth and Naomi"	P. H. Calderon, R.A.
E. Blocksidge	"Model of Dudley Castle"	
Editor, "Black and White"	"Eventide"	Prof. H. von Herkomer, R.A.
"	"O Mistress Mine"	E. A. Abbey, R.A.
G. Newnes & Co.	"Venus and Anchises"	Sir W. B. Richmond, R.A.
J. Bibby & Sons	"Don't 'ee tipty toe"	John Morgan.
"	"Ruth and Naomi"	P. H. Calderon, R.A.
"	"Elijah"	Lord Leighton, P.R.A.
"	"One of the Family"	F. G. Cotman, R.I.
Union Deutsche Verlagsgesellschaft	"And when did you last see your Father?"	W. F. Yeames, R.A.
James Paton	"A Summer Night"	P. H. Calderon, R.A.
"	"And when did you last see your Father?"	W. F. Yeames, R.A.
T. C. & E. C. Jack	"Maiwand—Saving the Guns"	R. Caton Woodville.
Cassell & Co., Ltd.	"Ruth and Naomi"	P. H. Calderon, R.A.
"	"Elijah"	Lord Leighton, P.R.A.
"	"Jephthah's Daughter"	Miss Jessie Macgregor.
Eyre & Spottiswoode	"One of the Family"	F. G. Cotman, R.I.
"	"A Reverie"	Frank Dicksee, R.A.
W. C. Wilson	"The Progress of Intemperance"	E. V. Rippingille.
H. Muthesius	"Love's Baubles"	Byam Shaw.
Cassell & Co., Ltd.	"A Nautical Argument"	C. Napier Hemy, A.R.A.
"	"The Best of Husbands"	Arthur Stocks, R.I.
"	"When the Children are Asleep"	Thomas Faed, R.A.
"	"Motherless"	Arthur Stocks, R.I.
A. G. Temple	"Nearing the Needles"	Henry Moore, R.A.
"	"Meadow Sweets"	David Murray, A.R.A.
"	"In Time of War"	Thomas Faed, R.A.
"	"Man Overboard"	Thomas Somerscales.
"	"And when did you last see your Father?"	W. F. Yeames, R.A.

APPLICANT.	PICTURE.	ARTIST.
A. G. Temple.....	"Elijah".....	Lord Leighton, P.R.A.
".....	"Dante's Dream".....	D. G. Rossetti.
".....	"The Punishment of Luxury".....	G. Segantini.
D. Croal Thomson.....	"The Old Man's Treasure".....	Carl Gussow.
".....	"Blanchisseuses".....	Miss Alice Havers.
".....	"Evening of the Battle of Waterloo".....	Ernest Crofts, R.A.
".....	"A Summer Night".....	Albert Moore.
".....	"A Reverie".....	Frank Dicksee, R.A.
".....	"O Mistress Mine".....	E. A. Abbey, R.A.
".....	"A Pageant of Childhood".....	T. C. Gotch.
Clement Shorter.....	"The Road to Camelot".....	G. H. Boughton, R.A.
".....	"Dante's Dream".....	D. G. Rossetti.
".....	"Venus and Anchises".....	Sir W. B. Richmond, R.A.
".....	"O Mistress Mine".....	E. A. Abbey, R.A.
".....	"A War Despatch".....	Andrew C. Gow, R.A.
".....	"An Idyll".....	M. Greiffenhagen.
".....	"A Reverie".....	Frank Dicksee, R.A.
".....	"Eventide".....	Prof. H. von Herkomer, R.A.
".....	"Samson".....	Solomon J. Solomon, A.R.A.
Austin Brereton.....	"Richard II. resigning the Crown".....	Sir J. Gilbert, R.A.
".....	"Lady Macbeth".....	T. F. Dicksee.
".....	"Ophelia".....	Miss Henrietta Rae.
".....	"Ariel".....	Robert Fowler, R.I.
Goupil & Co.	"Richard II. resigning the Crown".....	Sir John Gilbert, R.A.
H. N. King.....	"The Ancestor on the Tapestry".....	J. Haynes-Williams.
Charles Letts & Co.....	"Love's Baubles".....	Byam Shaw.
".....	"An Idyll".....	M. Greiffenhagen.
".....	"Maiwand—Saving the Guns".....	R. Caton Woodville.
".....	"The Expulsion of Adam and Eve".....	A. T. Nowell.
".....	"Pelagia and Philammon".....	Arthur Hacker, A.R.A.
".....	"Dante and Beatrice".....	Henry Holiday.
".....	"Ophelia".....	Miss Henrietta Rae.
".....	"Peonies".....	C. E. Perugini.
".....	"Don't 'ee tipty toe".....	John Morgan.
".....	"Table d' Hôte at a Dogs' home".....	J. C. Dollman, R.I.
".....	"Venus and Anchises".....	Sir W. B. Richmond, R.A.
".....	"The Reign of Terror".....	Miss Jessie Macgregor.
".....	"A Summer Night".....	Albert Moore.
".....	"And when did you last see your Father?".....	W. F. Yeames, R.A.
J. L. Caw.....	"The Rt. Hon. George Canning".....	Sir Thomas Lawrence, R.A.
T. & R. Annan & Sons ..	"Kenilworth".....	John Constable, R.A.
".....	"Lorenzo and Isabella".....	Sir J. E. Millais, Bart., P.R.A.
G. G. Napier.....	"The Prisoner of Chillon".....	Wm. Daniels.
L'don Electrotype Agency.	"O Mistress Mine".....	E. A. Abbey, R.A.
C. Arthur Pearson.....	"And when did you last see your Father?".....	W. F. Yeames, R.A.
".....	"Don't 'ee tipty toe".....	John Morgan.
Clement Shorter.....	"A Pageant of Childhood".....	T. C. Gotch.
".....	"Ruth and Naomi".....	P. H. Calderon, R.A.
".....	"The Goose Girl".....	Val. C. Prinsep, R.A.
".....	"The Triumph of the Innocents".....	W. Holman Hunt.

APPLICANT.	PICTURE.	ARTIST.
G. F. Clint.....	"Table d'Hôte at a Dogs' home"	J. C. Dollman, R.I.
Alf. Cooke	"Ruth and Naomi "	P. H. Calderon, R.A.
"	"Don't 'ee tipty toe "	John Morgan.
Alfred T. Storey	"Elijah "	Lord Leighton, P.R.A.
"	"Motherless "	Arthur Stocks, R.I.
"	"Dante and Beatrice "	Henry Holiday.
"	"When the Children are asleep"	Thomas Faed, R.A.
"	"Ruth and Naomi "	P. H. Calderon, R.A.
"	"The Triumph of the Innocents "	W. Holman Hunt.
"	"In time of War "	Thomas Faed, R.A.
"	"The Martyr of the Solway "	Sir J. E. Millais, Bart., P.R.A.
"	"Youth and Age "	H. Windsor-Fry, R.B.A.
"	"A Pageant of Childhood "	T. C. Gatch.
"	"Rival Grandfathers "	John R. Reid.
"	"Dante's Dream "	D. G. Rossetti.
F. Dolman.....	"A Reverie "	Frank Dicksee, R.A.
Editor, "Black & White "	"Leonora di Mantua "	Val C. Prinsep, R.A.
"	"A Reverie "	Frank Dicksee, R.A.
"	"Samson "	Solomon J. Solomon, A.R.A.
"	"Richard II. resigning the Crown "	Sir John Gilbert, R.A.
Cassell and Co., Ltd.	"The Stowaway "	Alfred Dixon.

ADDITIONS to the PERMANENT COLLECTION.

The undermentioned Works of Art have been added to the Permanent Collection during the year, viz:—

By Donations:—

“Hemans Memorial Medallions” (bronze), original models, by Charles J. Allen, presented, on behalf of the subscribers, by Theodore Brown, Esq. “The Temple of Jupiter, and the Acropolis” (oil), by John Fulleylove, R.I., presented by Mr. Alderman T. W. Oakshott, J.P. “The Charge of the 21st Lancers at the Battle of Omdurman” (oil), by R. Caton Woodville, presented by Sir Alfred L. Jones, K.C.M.G.: and Portrait of the late William Edwards Tirebuck (oil), by Miss Eleanor S. Wood, presented by Charles Porter, Esq.

By Purchase from the Autumn Exhibition of 1901:—

“The Passing of a Great Queen” (oil), by W. L. Wyllie, A.R.A. “Tristram and Iseult” (oil), by Herbert J. Draper. “Life and Thought” (oil), by Mrs. Evelyn de Morgan; and “Haymakers resting” (oil), by F. A. Delobbe; also “Snowdon, from Anglesea” (water colour), by J. Clinton Jones, R.C.A.; and “Sultry June” (water colour), by Joseph Kirkpatrick, both purchased under the terms of the Lord Derby Bequest.

STUDENTS.

The attendance of students copying in the Gallery during the past year is well up to the average, the total number of attendances being 2,219, and the pictures copied by them number 89.

The pictures principally favoured by students are the following: “Ruth and Naomi,” by P. H. Calderon, R.A.; “Nature’s Mirror,” by Peter Ghent; “Meadow Sweets,” by David Murray, A.R.A.; “Ophelia,” by Henrietta Rae; “A New Light in the Harem,” by F. Goodall, R.A.; “O Mistress Mine,” by E. A. Abbey, R.A.; “There is a rapture on the lonely shore,” by G. Cockram, R.C.A.; “Dante and Beatrice,” by Henry Holiday; and “A Pageant of Childhood,” by T. C. Goch.

Since the opening of the Gallery in 1877, the number of students who have been admitted to copy reach a total of 1,057.

ART GALLERIES, mostly under Municipal control,
opened since 1877:—

Blackburn Corporation Library, Museum and Art Gallery, opened 1894.

Bury Corporation Library, Museum and Art Gallery, opened 1901.

Bootle Corporation Library, Museum and Art Gallery, opened 1887.

Bath Corporation Victoria Art Gallery, opened 1897-8.

Birmingham Corporation Museum and Art Gallery, opened 1885.

Bristol Corporation Library, Museum and Art Gallery (in course of construction).

Brighton Corporation Art Gallery.

Bradford Corporation Art Gallery, opened 1879.

Cheltenham Corporation Art Gallery, opened 1899.

Cambridge Corporation.

Carlisle Corporation.

Derby Corporation Art Gallery, opened 1881.

Dudley Corporation Art Gallery, opened 1888.

Egham (Surrey) Corporation Art Gallery, opened 1881-3.

Hastings Corporation Art Gallery.

Halifax Corporation Art Gallery, opened 1890.

Hull Corporation Art Gallery, opened 1900.

Leeds Corporation Art Gallery, opened 1888.

Leicester Corporation Art Gallery, opened 1882.

Maidstone Corporation Art Gallery (Art wing added), 1890.

Manchester Corporation Art Gallery, opened 1883.

Manchester (Queen's Park) Art Gallery, opened 1884.

Manchester (Whitworth Institute) Art Gallery.

Norwich Corporation Art Gallery, opened 1894.

Nottingham Corporation Art Gallery, opened 1878.

Newport Corporation Art Gallery, opened 1894.

Oldham Corporation Art Gallery, opened 1883.

Plymouth Corporation Art Gallery, opened 1897.
 Preston Corporation Art Gallery, opened 1895.
 Reading Corporation Art Gallery, opened 1897.
 Southport Corporation Art Gallery.
 Sunderland Corporation Art Gallery, opened 1881.
 Stoke-on-Trent Corporation Art Gallery, opened 1878.
 Wednesbury Corporation Art Gallery, opened 1891.
 Wolverhampton Art Gallery and Museum, opened 1884.
 Worcester Corporation Art Gallery, opened 1887.
 York Corporation Art Gallery.

IN LONDON—

National Gallery of British Art (Tate Gallery), opened 1897.
 Corporation Art Gallery, Guildhall, opened 1885.
 Whitechapel Art Gallery.

IN SCOTLAND—

Aberdeen Corporation Art Galleries, opened 1883.
 Glasgow Corporation Art Galleries.

IN IRELAND—

Belfast Corporation Art Galleries and Museum.

In addition to the Permanent Collection and the Autumn Exhibition, the Galleries have been used in connection with the following:—

1882. Exhibition of about 200 drawings and sketches by the late H. Dawson, lent by the Executors.

Exhibition of drawings and sketches by J. M. W. Turner, R.A., lent by the Authorities of the National Gallery.

1885. Spring Exhibition of the Liverpool Society of Painters in Water Colours, during May and June.

1886. Loan Exhibition by owners of important works of art in Liverpool and district.

Exhibition of works by members of the Liverpool Society of Painters in Water Colours and Liver Sketching Club.

Exhibition of works of art deposited on loan by Mr. Alderman Samuelson, Mr. Merton Russell Cotes and Messrs. Kendall & Sons.

1887. Exhibition of illustrations of the works of Raphael during April, May, June and July, consisting of over 400 examples reproduced by various processes.

Exhibition by the Liver Society of Artists.

Exhibition by the Liverpool Painters in Water Colours.

Exhibition of works deposited on loan by Mr. Charles Langton, including examples by De Wint, Copley Fielding, Samuel Prout, David Cox, David Roberts, E. W. Cooke, Clarkson Stanfield, T. Sidney Cooper, F. M. Richardson, G. Fripp, George Morland and others.

Exhibition of pictures by the Russian Artist, Vassili Verestchagin.

1888. International Photographic Exhibition.

1889. Exhibition of Decorative and Applied Art, including rare examples, from South Kensington, of Modern Furniture, Electrotype reproductions of Old Royal Gold Plate, Tapestry of the 16th Century, &c., &c.

1890. Exhibition of the Doré Collection of Religious Pictures.

Exhibition by the Liverpool Society of Painters in Water Colours.

During the month of August the Galleries were placed at the disposal of the Mayor (Thomas Hughes, Esq.), for the purpose of holding a *Conversazione* of the members of the Association for the Reform and Codification of the Laws of Nations.

1891. Photographic Exhibition, under the auspices of the Liverpool Amateur Photographic Association.

The Permanent Collection was this year opened to the public on Sundays for the first time.

1892. Naval Exhibition.

1893. Spring Exhibition, comprising the Roscoe collection of pictures and works of the Liverpool Society of Painters in Water Colours.

Conversazione, held by the Society of Chemical Industry, in connection with the Annual Meeting of the Society.

1894. Spring Exhibition of Applied Art and Photographic Work. Annual Soiree of the Geological Society.

Annual Soiree of the Liverpool Amateur Photographic Society.

1895. Display of objects forming a Palestine Exhibition, by the Society for promoting Christianity among the Jews.

Exhibition of Black and White Drawings and objects of Applied Art.

1896. Exhibition of Historical Collection of Water Colour Drawings of the British School, illustrating the rise and progress of the Art.

Reception held by the local Committee of the British Association.

Reception held by the Council of the Liverpool Geographical Society.

Reception held by the Liverpool Municipal Officers' Guild. Model of Rome added to the Permanent Collection.

1897. Exhibition of pictures by the late Alfred W. Hunt.

Exhibition of Colonel Hanna's collection of Indo-Persian Drawings and Illuminated Books. (Lent to the Gallery for a period of three years.)

1898. Spring Exhibition of Arts and Crafts and Photographic work.

Banquet given by the Liverpool Architectural Society.

1899. Exhibition of pictures illustrating Napoleon in Russia, by the Russian artist, Vassili Verestchagin.

1900. Reception by the Lord Mayor (Rt. Hon. Louis S. Cohen) of the Committees of the various political organisations.

Examination for Art Scholarship, under the auspices of the Technical Instruction Committee.

Exhibition held of the work for the year by students of the Liverpool University College.

Liverpool Geographical Society's prize distribution, by Lord Derby.

Exhibition of the religious picture "Ecce Homo," by Munkacsy.

Exhibition of the religious picture "Christ or Barabbas," by Davenport Bates.

RESULTS OF THE AUTUMN EXHIBITION OF PICTURES.

	1900.			1901.		
		£	s. d.		£	s. d.
Number of Works of Art Exhibited	1,566	—	—	1,703	—	—
Number of Pictures sold	175	—	—	239	—	—
Amount of sales at Catalogue prices	—	8,508	14 6	—	7,669	17 0
Season Tickets sold	3,006	541	19 6	3,268	569	10 6
Admissions at One Shilling	28,623	1,431	3 0	28,396	1,419	16 0
„ Sixpence	19,942	498	11 0	20,703	517	11 6
„ Threepence	15,122	189	0 6	12,717	158	19 3
Catalogues sold.....	19,223	501	7 0	19,487	515	9 0
Commission on sales	—	277	14 4	—	257	12 10
Miscellaneous Receipts	—	922	15 2	—	625	12 7
Total Receipts, exclusive of sales.....	—	4,084	16 2	—	3,808	0 10

TABULATED STATEMENT OF ADMISSIONS, PICTURES SOLD, &c., DURING 31 YEARS, FROM 1871 TO 1901.

Year.	ADMISSIONS.			Threepence.			Season Tickets.			Catalogues Sold.			Commission on Pictures Sold.			Miscellaneous Receipts.			Total Receipts.			PICTURES SOLD.		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1871	720	16	0	207	14	6	62	2	0	165	10	0	320	18	6	46	4	4	1,523	5	4	6,395	2	6
1872	601	5	0	48	2	6	59	6	6	168	0	6	312	6	0	3	18	3	1,368	8	3	6,231	4	6
1873	665	18	0	229	10	3	96	8	6	199	17	6	371	17	0	2	10	0	1,566	1	3	7,402	17	6
1874	854	16	0	241	13	3	151	16	6	247	0	6	479	0	3	2	7	0	1,976	13	6	9,514	13	0
1875	972	13	0	210	7	0	210	7	0	279	14	3	617	3	0	11	9	2	2,406	17	11	12,299	18	6
1876	1,118	0	0	232	7	6	221	1	0	301	12	0	440	15	3	9	10	7	2,409	15	10	8,867	10	0
1877	1,928	12	0	419	3	3	443	14	0	454	10	1	537	11	2	18	4	2	3,801	14	8	10,963	11	0
1878	1,964	17	0	423	5	0	528	14	6	562	8	6	237	13	0	142	0	4	4,189	7	10	6,225	14	0
1879	1,516	12	0	378	11	9	566	7	6	504	9	3	364	16	0	7	17	0	3,550	15	0	9,159	15	0
1880	1,449	11	0	274	4	6	499	16	0	509	7	3	544	3	3	10	17	7	3,727	19	1	11,753	7	6
1881	1,434	15	0	289	4	6	475	14	0	468	19	9	523	7	6	15	9	6	3,583	14	9	8,15	12	10
1882	1,430	3	0	299	3	6	476	1	0	472	14	6	362	8	9	23	1	11	3,396	8	8	7,868	3	6
1883	1,302	1	0	304	17	3	381	3	6	434	15	9	403	13	0	32	6	10	3,132	5	4	8,472	10	6
1884	1,966	12	0	519	14	3	649	7	6	599	13	3	432	6	3	87	7	5	4,790	1	2	12,313	7	6
1885	1,317	9	0	344	10	0	501	7	6	481	7	9	353	17	0	44	1	10	3,409	2	1	8,028	8	6
1886	1,147	1	0	333	15	9	302	10	6	434	9	0	336	13	9	36	19	7	2,989	3	7	8,576	18	0
1887	888	15	0	260	0	0	216	4	0	371	2	3	185	3	9	18	11	0	2,329	14	6	4,791	19	0
1888	1,473	5	0	186	11	3	384	1	0	524	17	6	268	16	9	40	3	3	3,501	3	9	6,461	6	0
1889	1,475	4	0	92	15	6	432	11	6	524	9	6	283	10	6	75	2	7	3,472	1	1	8,083	3	6
1890	1,372	11	0	241	4	6	511	12	6	484	18	0	221	16	9	79	1	4	3,286	7	7	6,943	1	6
1891	1,765	3	0	449	1	9	593	14	0	589	1	6	281	4	3	61	15	6	4,138	15	6	7,603	2	0
1892	1,559	13	0	223	4	0	632	9	6	535	12	9	172	7	9	43	16	2	3,609	2	2	5,132	8	6
1893	1,423	15	0	207	12	9	630	18	6	505	9	6	196	14	6	42	6	0	3,441	15	9	6,297	9	0
1894	1,990	7	0	246	17	6	641	12	6	500	0	9	142	11	3	31	9	10	3,286	12	10	4,345	4	6
1895	1,268	10	0	213	13	3	566	6	0	467	18	0	180	14	2	64	17	5	3,135	17	5	5,470	7	0
1896	1,371	15	0	205	7	9	623	2	0	500	14	7	143	16	2	24	11	4	3,332	17	5	4,227	8	0
1897	1,510	14	0	258	12	9	584	1	0	533	4	3	179	4	10	90	5	10	3,709	14	2	5,821	12	6
1898	1,406	9	0	229	2	0	453	6	6	490	19	8	365	11	10	209	3	9	3,582	19	3	9,397	17	6
1899	1,363	5	0	166	1	3	482	13	6	493	0	0	197	0	9	375	14	3	3,536	5	9	8,089	2	6
1900	1,431	3	0	189	0	6	541	19	6	501	7	0	277	14	4	922	15	2	4,362	10	6	8,508	14	6
1901	1,419	16	0	158	19	3	570	12	6	515	9	0	257	12	10	625	12	7	4,065	13	8	7,639	17	0
Total	41,411	6	0	8,398	3	3	13,501	2	0	13,842	13	7	9,992	9	11	3,199	11	6	100,613	5	9	245,126	5	6

CHARLES DYALL, (URATOR.



PRESENTED

17 JUN 1904

FIFTIETH
ANNUAL REPORT
OF THE COMMITTEE
OF THE
PUBLIC LIBRARIES,
MUSEUMS,
AND
ART GALLERY,
OF THE
CITY OF LIVERPOOL,



FOR THE YEAR ENDING 31ST DECEMBER, 1902.



LIVERPOOL:
C. TINLING AND CO., PRINTING CONTRACTORS, 53, VICTORIA STREET.

1903.

COMMITTEE AND OFFICERS

for the Year 1902-1903.

THE RIGHT HONOURABLE WILLIAM WATSON RUTHERFORD, M.P., J.P.,
LORD MAYOR.

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Deputy-Librarian :

THOMAS FORMBY.

Director of Museums :

HENRY O. FORBES, LL.D., F.R.G.S.

Assistant Curator of Ford Abbey Museum :

JOSEPH A. CLUBB, M.Sc.

Assistant Curator of Mayer Museum :

P. ENTWISTLE.

Curator of the Walker Art Gallery :

CHARLES DYALL.

Assistant Curator, Walker Art Gallery :

ARTHUR G. QUIGLEY.

GENERAL REPORT.

The figures given in the Librarian's Report will be read with interest as indicative not only of the extent of the Committee's work, but of the public appreciation of the facilities offered to them for reading.

The munificence of Mr. Andrew Carnegie in providing public libraries, not only in this country and in the United States, but also in our colonies, has directed very special attention to the advantages offered by these institutions. In some of the criticisms which appeared in the public press, the question of the value of free libraries was raised, it being contended that it was doubtful if they repaid the sacrifices which they entail upon the ratepayers for their maintenance. In these days, when everything is valued by its immediate money's worth, or by its success in competitive examination, it is difficult to find a test by which to give a popular idea of the value of an institution which is partly educational and partly recreative and entertaining in its character, and the use of which is also entirely voluntary. If we regard our national system of free education not only as a great aid and stimulus to material progress, but as opening up new avenues of culture, thought, and effort, and creating a new appetite which can only be satisfied by literature in one or other of its many forms, we must at once admit that the free library is the natural and necessary complement to our educational system. To educate our citizens up to a point in a classroom, and then to give them no opportunity of continuing it, supplementing it, or making it fruitful for the ordinary affairs of life, would indeed be worse than foolish. Here, then, the free library finds its necessary place, and without it our great educational edifice would be shorn of the capital and cornice which gives to the column and wall their finish and power of sustaining the stresses and strains of the building we have constructed at such a vast cost. That these opportunities are made use of, the figures given by our Librarian abundantly testify. That they are fruitful in large things we can prove by the number of

students, who, by the use of our libraries, have produced works which have taken high place in contemporary literature. The working man who rushes in during his dinner hour to consult a technical book bearing on his trade, the schoolboy who finds here the material to win the scholarship which is the first rung on the ladder of achievement which he is anxious to attain, the pressman who seeks the information which to-morrow he gives out to the world, the clergyman in the preparation of his weekly discourse, and the school-master in his classroom, are all equally indebted to the free library. Nor must I omit the many who find pleasure and recreation in the latest fiction, book of travels, or biography: not a few of whom thus obtain the habit of reading which carries them forward to the higher realms of literature, and all of whom are the better for the hours they spend over books, for all reading must be broadening and enlightening, and tend to make men and women less parochial and more and more citizens of the world. We have to appeal to a broad view of library work as a witness to its value, and in this aspect those most familiar with it are not only satisfied with what it has done, but look forward to the future with sanguine expectations.

The opening of the new South Library, and the gift of a Library for West Derby by Mr. Carnegie, are the leading events in our records for the past year.

In the Museum we have been mainly occupied with preparatory work for the re-arrangement of the galleries, in which we hope to make good progress during the coming year.

The Art Gallery has been enriched by several gifts and by purchases from the Autumn Exhibition. The Autumn Exhibition brought together all the best works of the year, and was quite equal to any of its predecessors.

WILLIAM B. FORWOOD,

CHAIRMAN.

LIBRARY DEPARTMENT.

CHIEF LIBRARIAN'S REPORT.

Fifty years have now passed away since the Liverpool Public Library was founded on the 18th of October, 1852. Those who remember its beginning in the building formerly known as the Union Newsroom, in Duke Street, and the modest stock of books available for readers, will need no comparisons to make them understand the growth and development of the institution. Then the number of books in the Reference Library at the end of the first year was 13,456. On its jubilee birthday they had increased to 125,000, and 93,000 in the several branch libraries, making a total of 218,000 volumes. The issue of volumes during the first year was 111,723. Last year the volumes issued in the Reference Library, William Brown Street, numbered 603,571; and if to these we add the volumes lent for home reading from our various lending branches and those issued in their reading rooms, we have a grand total of 1,717,607 volumes, apart from an enormous number of periodicals and newspapers read, estimated at 1,478,866. If, further, we include the 70,250 persons who attended the 110 lectures delivered in various centres of the city, some idea may be formed of the work of the Libraries during the past year. During the half century since the foundation of the Library, upwards of 51 million volumes have been more or less read, besides magazines, reviews and periodicals of all kinds, the number of which cannot be given with accuracy, but which cannot be less than two-thirds of the total of books. The amount of mental profit and enjoyment obtained by the community during this period is not easy to measure; but so great a circulation of books such as are available from the Libraries must have had a beneficial influence.

The scientific and art works have in particular helped, it is known, many an earnest student onward to success in life. The books provided for our boy and girl readers have been selected with the

greatest care, and are at once entertaining, instructive and stimulating to acts of kindness and good feeling. The blind are provided with a large and interesting selection of books adapted to their needs. Lovers of music are encouraged in the study of that refining art; and since forcible arguments are continually advanced in favour of places of rational entertainment for the masses, the Public Libraries and Reading Rooms have provided these for many years past with a success which the statistics fully prove and confirm.

The principal event in the extension of the Libraries during the past year was the opening of the new South Library—now called the Toxteth Library—by Mr. Andrew Carnegie. His genial and encouraging address on the occasion gratified all who heard it. The building externally is an architectural ornament to the neighbourhood, and its reading rooms are commodious, bright, comfortable and attractive. In its general reading room there is accommodation for 150 adults; an equal number of boys can be further accommodated in their own room, and 50 ladies in a room set apart for their special use. The popularity of the Library was assured from the first. The work done during the first three months is represented by the following figures:—

Volumes issued for home reading ...	...	...	47,058
„ in Reading Room ...	...	...	34,782
„ in Ladies' Room ...	...	...	5,612
„ in Boys' Room ...	...	...	23,217
			<hr/>
			110,669
			<hr/>

The construction of this Library externally and internally, and the extent of its useful work, so pleased Mr. Carnegie that on 16th December he addressed the following letter to the Chairman of the Library Committee, Sir William Forwood:—

New York, December 16th, 1902.

My dear Sir William,

Delighted to hear of the progress of the Toxteth Library.

You mentioned that you wished to build another such branch somewhere, costing about thirteen thousand pounds. If it

would not be considered intrusive, I should like to testify my appreciation of the public spirit of Liverpool, and especially of its partnership in the free library movement. It has a great record, having established a free library before the advent of the Libraries Act. Besides this, I was deeply impressed by the number of able citizens who give so much of their time, not to aims that end with miserable self, but for good of the community.

I do not make a practice of volunteering. I depend upon you and such of your other friends that I had the pleasure of meeting to be sure the offer would be universally received with approval.

Please be sure to consult the late Lord Mayor, my fellow-countryman, in your counsels, and believe me,

Always very truly yours,

ANDREW CARNEGIE.

In compliance with this, an admirable site in the district of West Derby has been selected, and plans and drawings for it are already well advanced, and give promise of a building in every way adapted for its purpose, and be at the same time worthy of the generous donor, whose name the City Council have resolved it should bear.

Considerable progress is made with the indexing and cataloguing of the Library's extensive local collection of books, pamphlets, drawings, maps, &c., which when completed and published cannot fail to be of the greatest interest to Liverpool people generally. The descriptive catalogue of the valuable Hornby collection of art books is well advanced. The importance of this munificent bequest is revealed more and more in the work of cataloguing it.

The new Wavertree Branch Library is so near completion that its formal opening may be reasonably expected about the middle of May next. Much of the private time of the Chief Librarian has been occupied in writing a history of the Liverpool Libraries during the past half century.

TABLE I.

SUMMARY OF STATISTICS OF LIBRARY DEPARTMENT.

	Volumes issued.	Weekly, &c. Magazines issued.	Newspaper Visitors.	Lecture Attendance.
Reference Library.				
PICTON READING ROOM:				
Volumes issued.....	295,529			
Magazines and Reviews		135,771		
BROWN LIBRARY:				
Volumes issued.....	127,496			
Monthly and Weekly Magazines		204,523		
Illustrated Papers, issued in volumes ("The Graphic," "Illustrated London News," "Punch," &c.)	46,354			
Directories	100,186			
Specifications of Patents for Inventions	34,036			
Visitors to the Newspapers			308,771	
Lending Libraries (Six).				
Volumes lent for Home Reading	817,041			
KENSINGTON LIBRARY READING ROOMS:				
Volumes issued.....	93,773			
Magazines and Reviews		133,741		
Visitors to the Newspapers			110,910	
EVERTON LIBRARY READING ROOMS:				
Volumes issued.....	118,475			
Magazines and Reviews		155,196		
Visitors to the Newspapers			121,631	
TOXTETH LIBRARY READING ROOMS:				
Volumes issued.....	73,852			
Magazines and Reviews		45,483		
Visitors to the Newspapers.....			61,041	
WALTON LIBRARY READING ROOM:				
Volumes issued.....	7,865			
Magazines and Reviews		58,077		
Visitors to the Newspapers			53,385	
Evening Reading Rooms.				
Newspapers, Magazines, and Reviews.....			87,337	
Lectures.				
Attendance				70,253
Totals	1,717,607	782,791	746,075	70,253

TABLE II.

Comparative Statement of issues in the Picton Reading Room:—

Classification.	1902.	1901.
Theology, Morals, and Metaphysics	20,423	15,155
Natural Philosophy, Mathematics, &c.	26,490	19,412
Natural History	12,339	8,518
Science and the Arts	46,327	41,052
History and Biography, &c.	26,149	23,722
Topography and Antiquities	14,501	10,049
Voyages and Travels, Gazetteers, Atlases	28,499	22,482
Collected Works, Essays, &c.	47,502	49,862
Jurisprudence, Law, and Politics	10,355	6,792
Commerce, Political Economy, Social Science, &c.	12,759	9,003
Education and Language	18,488	17,437
Poetry and Dramatic Literature	14,704	10,851
Latin and Greek Classics	2,813	2,339
Encyclopædias, Dictionaries, &c.	14,180	10,218
Totals	295,529	246,892

Shewing an increase over 1901 of 48,637 volumes.

TABLE III.

Shewing the number and classification of works contained in the Reference Library:—

Classification.	Volumes.
Theology, Morals, and Metaphysics	8,319
Natural Philosophy, Mathematics, &c.	3,440
Natural History	6,837
Science and the Arts	16,753
History and Biography, &c.	15,076
Topography and Antiquities	6,884
Voyages and Travels, Gazetteers, Atlases	6,170
Miscellaneous Literature (principally collected Works, Essays, Reviews, Societies' Proceedings, &c., in volumes)	30,274
Jurisprudence, Law, and Politics	10,092
Commerce, Political Economy, Social Science, &c.	3,022
Education and Language	2,126
Poetry and Dramatic Literature... ..	4,699
Prose Fiction	5,789
Latin and Greek Classics and Translations	1,057
Encyclopædias and Works of General Reference	4,638
Total	125,206

TABLE IV.
LENDING LIBRARIES.

GENERAL STATISTICS.

Volumes issued, &c.	Central.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total.
Volumes issued in Lending Departments	229,498	150,259	94,238	159,949	95,727	87,370	817,041
Volumes issued in General Reading Rooms.....	—	59,355	46,731	52,489	7,865	—	166,440
Volumes issued in Ladies' Rooms	—	16,587	6,795	11,600	—	—	34,922
Volumes issued in Boys' Rooms	—	42,533	23,386	29,684	—	—	95,603
Magazines issued in General Reading Rooms	—	97,854	31,232	102,725	58,077	—	289,888
Magazines issued in Ladies' Rooms	—	26,449	8,331	17,517	—	—	52,327
Magazines issued in Boys' Rooms	—	30,893	5,920	13,469	—	—	50,282
Newspaper Readers in General Reading Rooms	—	114,064	60,496	100,937	53,385	—	328,882
Newspaper Readers in Ladies' Rooms	—	7,567	3,545	9,973	—	—	21,085
New Tickets issued	3,488	1,831	2,662	2,268	1,156	993	12,398
Readers on the Books.....	7,057	3,657	4,426	4,467	2,388	1,847	23,842
Books lost or injured and paid for	37	30	22	44	15	15	163
Books lost from Lending Departments.....	1	—	2	2	—	1	6
Books stolen from Reading Rooms	—	8	4	6	—	—	18
Volumes worn out and withdrawn	491	105	1,579	538	—	100	† 2,813
Volumes worn out and replaced	285	365	1,138	251	—	—	2,039
Volumes added	525	247	350	291	198	150	1,761
Total volumes in Libraries	14,745	24,836	25,568	16,331	7,394	5,117	93,991

* The Toxteth Branch Lending Library was closed from June 2nd to October 18th for re-organization prior to removal. The new building, with Reading Rooms, was opened for the issue of books on October 20th, 1902.

† Includes 1,277 volumes transferred to New Wavertree Library Stock.

TABLE V.

Shewing the classification of volumes issued.

Classification.	Lending Departments.						Reading Rooms.				Total Issues.		
	Central.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total issued for Home Reading.	Everton Branch.	Toxteth Branch.	Kensington Branch.		Walton Branch.	Total Issued in Reading Rooms.
Theology, Morals, &c.....	2,779	2,102	1,029	1,075	746	397	8,128	2,575	3,308	1,412	129	7,424	15,552
Natural Philosophy.....	3,842	1,932	1,007	1,971	1,144	746	10,642	4,838	3,945	2,497	336	11,116	21,758
Natural History	2,877	800	524	1,002	802	548	6,553	3,811	3,144	1,681	137	8,773	15,926
Science and the Arts	15,076	7,771	5,290	8,773	5,275	3,295	45,480	9,396	4,848	5,905	1,092	21,241	*66,721
History and Biography	6,794	3,788	2,619	3,537	1,998	1,874	20,610	7,344	4,739	4,287	354	15,724	37,334
Topography and Antiquities	1,875	578	347	691	555	455	1,501	4,292	3,095	1,093	200	8,680	13,181
Voyages and Travels	4,459	1,838	1,283	1,687	1,372	1,127	11,766	4,927	4,503	2,433	285	12,148	23,914
Miscellaneous Literature ...	3,396	7,039	3,958	6,421	3,317	722	24,853	12,447	4,716	7,554	503	25,220	50,073
Jurisprudence, Law, &c.....	673	170	84	172	102	97	1,298	2,428	45	1,256	33	3,762	5,060
Commerce, &c.....	2,497	1,308	688	741	452	254	5,940	7,135	3,934	1,629	126	12,824	18,764
Education and Language ...	1,937	938	368	601	296	218	4,358	1,950	3,083	1,459	152	6,644	11,002
Poetry and the Drama	1,879	483	356	767	357	329	4,171	1,799	3,162	1,167	128	6,256	10,427
Prose Fiction	179,762	98,175	60,592	107,553	79,311	77,308	602,701	11,442	7,065	17,595	4,390	40,492	643,193
Latin and Greek Classics ...	320	177	140	206	—	—	843	122	12	174	—	308	1,151
Books for the Blind.....	1,332	—	—	—	—	—	1,332	—	—	—	—	—	1,332
Books for the Young	—	23,160	15,953	24,752	—	—	63,865	44,469	27,253	43,631	—	115,353	173,218
TOTALS.....	229,498	150,259	94,238	159,949	95,727	87,370	817,041	118,475	76,852	93,773	7,865	296,965	1,114,006

* Of this total 21,083 were volumes of Music.

TABLE VI.—Shewing classification of Borrowers.

Classification.	Central.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Total.
Architects, Builders, and Surveyors.....	23	3	13	18	2	10	69
Artists, Photographers, and Draughtsmen	91	9	20	12	1	14	177
Bakers, Butchers, and Grocers	61	90	74	75	40	23	363
Boilermakers, Platers, and Riveters	8	4	9	7	3	—	31
Bookbinders, Printers, and Stationers.....	142	58	43	60	6	6	315
Bookkeepers, Clerks, and Agents	2,651	416	624	612	381	235	4,919
Boot and Shoe Makers	16	14	13	4	5	2	54
Box Makers	11	6	4	9	—	—	30
Brass, Iron, and Steel Founders	20	8	16	5	3	1	53
Bricklayers, Slaterers, and Masons	12	15	10	19	6	—	62
Cabinetmakers, French Polishers, &c.....	53	13	26	41	3	4	140
Carpenters and Joiners	42	39	60	54	26	11	232
Chemists and Druggists	30	12	27	26	2	7	104
Clergymen, Doctors, and Lawyers	67	13	22	18	9	10	139
Coach Painters and Builders.....	11	1	14	26	1	3	56
Cooks, Waiters, and Waitresses	37	5	14	25	3	18	102
Customs' Officers, Police, Postmen, &c. ...	61	67	92	130	22	33	405
Domestic Servants	13	9	22	15	1	43	103
Dressmakers and Milliners.....	130	42	45	62	14	28	321
Engineers, Fitters, and Machinists	134	85	118	103	29	21	490
Farmers and Gardeners	5	1	8	6	7	18	45
Firemen	6	4	7	8	3	—	28
Hairdressers	21	4	18	5	5	1	54
Ironmongers	15	6	7	3	4	1	36
Labourers	51	108	100	28	24	4	315
Licensed Victuallers, Brewers, & Barmen	57	11	15	9	12	1	105
Mariners.....	15	10	36	10	22	3	96
Merchants and Brokers	35	6	43	28	11	12	135
Messengers, Office Boys, and Apprentices.	373	90	189	112	140	30	934
Music Teachers.....	12	8	10	22	6	2	60
Musicians	37	7	12	23	5	4	88
Nurses	30	4	10	12	14	18	88
Painters, Plumbers, and Gasfitters	56	30	47	37	20	9	199
Pattern Makers, Moulders, and Turners...	10	16	26	12	2	1	67
Pawnbrokers	3	6	23	3	10	—	45
Schoolmasters and Teachers	251	171	112	237	101	125	997
Students and Scholars	137	609	377	310	130	103	1,671
Shipwrights, Riggers, and Sailmakers.....	5	11	20	5	1	2	44
Smiths	11	18	20	6	9	5	69
Tailors and Drapers.....	134	19	28	72	6	11	270
Telegraphists and Typists	128	18	54	45	13	29	287
Tobacconists	50	6	2	18	5	—	81
Warehousemen and Storekeepers.....	95	33	49	73	10	4	264
Watchmakers, Jewellers, and Opticians...	24	4	17	11	9	1	66
Miscellaneous	157	134	33	201	216	100	841
No occupation (principally females).....	1,726	1,414	1,897	1,820	1,046	889	8,792
Totals.....	7,057	3,657	4,426	4,467	2,388	1,847	23,842

TABLE VII.—EVENING READING ROOMS.

	1902.		1901.	
	Attendance.	Average per Night.	Attendance.	Average per Night.
Chatsworth Street Board Schools ...	25,258	82	25,325	83
Stanley Road Board Schools	46,280	152	45,629	151
Wellington Road School	15,799	51	14,158	46
	87,337	285	85,112	280

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BRANT-SERO, JOHN OJIJATEKHA, Canadian Mohawk Indian. "Canada and the Indians," with musical and lantern illustrations.

BURSTALL, FRED. H., F.R.C.O., Cathedral Organist, Liverpool. "English songs and Madrigals," with musical illustrations.

CAIRNS, W. MURRAY, M.B. "Experiences of residence among the Chinese and Japanese," with lantern illustrations.

CORTIE, REV. A. L., S.J., F.R.A.S., of Stonyhurst College Observatory. "New Stars," with lantern illustrations.

COWELL, PETER, F.R.H.S., Chief Librarian, Free Public Libraries, Liverpool. "My visit to Venice, and what I saw there," with lantern illustrations.

DIBDIN, E. RIMBAULT. "The Pre-Raphaelite movement," with lantern illustrations.

FRIEND, MISS. "Sidelights on the Siege of Mafeking," with lantern illustrations.

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GRENSTED, REV. F. F., M.A., Diocesan Inspector of Religious Education. "The oldest records of the rocks; or, what Wales has to tell of how life appeared on earth," with lantern illustrations.

HELE-SHAW, H. S., LL.D., F.R.S., Professor of Engineering, University College, Liverpool. "Aerial navigation," with lantern illustrations.

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ing Ship "Indefatigable." United Gas Light Co. United Trades and Labour Council. Workshops for the Out-door Blind. Young Men's Christian Association. Young Women's Christian Association; Liverpool Booksellers' Co.; Liverpool Cathedral Petition Committee; Liverpool Catholic Publishing Co.; Liverpool Constitutional Association; Liverpool Medical Officer of Health (E. W. Hope, M.D., D.Sc.), Annual Reports; Liverpool Underwriters' Association; Liverpool University College; F. G. Llewellyn; London and North-Western Railway Co.; London Directory Co.; David Lubin; The Lessee, Lyric Theatre, Liverpool; Messrs. Macdonald & Co.; John Maclauchlan; J. W. McWhinnie; James Malley; Manchester Geological Society; Manchester Microscopical Society; Manchester Museum, Owens College; Manchester Statistical Society; Manitoba Historical and Scientific Society, Canada; Messrs. Mather and Crowther; William M. May; D. P. Menzies; Mercantile Marine Service Association, Liverpool; Merchant Venturers' Technical College; Mersey Conservancy; Mersey Docks and Harbour Board; Meteorological Council, London; Midland Railway Co.; Milwaukee Public Museum, U.S.A.; Mrs. Frida Mond; Messrs. Moody and Co.; Henry D. Muir; National Academy of Sciences, Washington, U.S.A.; National Association for the Promotion of Technical and Secondary Education; National Association of Manufacturers, Philadelphia, U.S.A.; National Home Reading Union; National Reform Union, Manchester; National Society for the Prevention of Cruelty to Children; National Union of Women's Suffrage Societies; Vice-Admiral Sir G. S. Nares, K.C.B., F.R.S.; J. Birkbeck Nevins, M.D.; The Lessee, New Grand Opera House, Liverpool; Agent-General for New South Wales, London (Henry Copeland); New South Wales Government; University of the State of New York, U.S.A.; Agent-General for New Zealand, London (W. P. Reeves); Nicholson Institution, Leek; North British Railway Co.; North-Eastern Railway Co.; Northern Counties Educational League; Norwegian and North Atlantic Expedition; Ontario Government Agency, Liverpool (Peter Byrne); Philip R. Owen; W. R. Owen; Owens College, Manchester; Delegates of the Local Examinations, University of Oxford; Royal Commission, Paris International Exhibition; Commissioner of Patents, Canada; Comptroller of Patents, London; Registrar of Patents, Queensland; Registrar of Patents, Western Australia; Messrs. J. & J. Paton; Peabody Institute, Baltimore, U.S.A.; E. E. Peacock; Edleston Peers; C. M. Percy, M.E., F.G.S.; Messrs. Phillipson & Golder; Lionel J. Pieton, M.A., M.B.; Messrs. Sir Isaac Pitman & Sons; The Lessees, Prince of Wales Theatre, Liverpool; W. C. Procter; Queen's College, London; Agent-General for Queensland, London (Sir Horace Tozer, K.C.M.G.); Ragged School Union, London; T. Mellard Reade, F.G.S., F.R.I.D.A.; Religious Tract Society, London; C. R. Robertson; Municipalité Rosario de Santa Fe, Argentine Republic; The Proprietors, Rotunda Theatre, Liverpool; J. Rowson; Royal Academy of Arts, London; Royal Astronomical Society, London; Royal College of Physicians, London; Royal College of Surgeons, London; Royal Colonial Institute, London; Royal Cornwall Polytechnic Institute; Robert Arthur Theatres Company, Ltd., Royal Court

Theatre, Liverpool; Royal Institute of British Architects; Royal National Lifeboat Institution; Royal Observatory, Greenwich; Royal Society of Canada; Royal Society of London; Royal Society of Victoria, Melbourne, Australia; Royal University of Ireland; St. Bride Foundation Institute, London; St. Mary's Hospital Medical School, London; F. Schun; Henry Sell; The Shakespeare Theatre Co., Liverpool; William Sharpe, M.D.; G. T. Shaw; Sherwood Press, Elizabeth, U.S.A.; Registrar-General of Shipping and Seamen; Janet E. K. Shuttleworth; Rev. Walter Sidgreaves, S.J., U.S.A.; Francis O. Simpson, L.R.C.P., M.R.C.S.; Messrs. G. E. Skerry & Co.; Rev. A. L. Smith, B.A.; W. Smith; Smith Premier Typewriter Co.; Smithsonian Institution, Washington, U.S.A.; H. Lloyd Snape; Society for the Propagation of the Gospel in Foreign Parts; Society of Accountants and Auditors; Society of Antiquaries of London; Society of Antiquaries of Scotland; Society of Colonial Wars, New York, U.S.A.; E. J. Burgess Sopp, F.R.M.S.; C. C. Soule; South-Eastern and Chatham Railway Co.; Southport Meteorological Observatory; W. J. Stewart; Alderman J. N. Stolterfoht (Chairman, Libraries Sub-Committee, Liverpool); Messrs. Stubbs & Co.; Miss M. Stubbs; Joseph P. Swan; Swedenborg Society; Sydney University; Sydney University Engineering Society; Agent-General for Tasmania, London (Alfred Dobson); Messrs. W. P. Thompson & Co.; College of Science, Imperial University, Tokyo, Japan; Town and County Directories, Ltd.; Trinity College, London; George Tutill; Vancouver Board of Trade; J. W. Vickers; Agent-General for Victoria, London; Victoria University, Manchester; Volta Bureau, Washington, U.S.A.; University College of North Wales, Bangor; University College of South Wales and Monmouthshire, Cardiff; University College of Wales, Aberystwyth; University College of Wales, Brecon; Rev. E. A. Wesley; Agent-General for Western Australia, London (Sir E. H. Wittenoom, K.C.M.G.); Mrs. Whitehead; Messrs. Whittaker & Co.; H. T. Wigforth; F. E. Williams; Messrs. Wilmer Brothers & Co.; Wisconsin Natural History Society; Central Society for Women Suffrage; E. A. Wright; G. Lionel Wright; Miss M. D. Wright; William J. Yeoman; Zoological Society of London.

The following Periodicals, Newspapers, &c. have been presented regularly by the respective Publishers, &c.:—

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| Accountant | Incorporated Society of Musicians, |
| African Review | Journal of |
| Anglo-Russian | In His Name |
| Animals' Friend | India's Women and China's Daughters |
| Arms and Explosives | Insurance Agent & Insurance Review |
| Awake | Investors' Guardian |
| Bibby's Quarterly | Irish Times |
| Bible Advocate | Iron and Steel Trades Journal |
| Board of Trade Journal | Islamic World |
| British Temperance Advocate | Isle-of-Man Examiner |
| Brotherhood of Locomotive Engineers' Journal | Keefe's Civil Service Monthly |
| Builders' Reporter | Labour Gazette |
| Canadian Gazette | Ladies' League Gazette |
| Canadian Patent Office Record | Leaves of Healing |
| Cape Argus | Liberty Review |
| Cape Times | Lichfield Mercury |
| Child's Guardian | Life-boat |
| Church Family Newspaper | Light |
| Church Missionary Gleaner | Literary News |
| Church Missionary Intelligencer | Liverpool Catholic Times |
| Church Monthly | Liverpool College Old Boys' Magazine |
| Civil Service Aspirant | Liverpool College Upper School Magazine |
| Civil Service Candidate | Liverpool Courier (daily and weekly) |
| Civil Service Competitor | Liverpool Echo |
| Civil Service Hints | Liverpool Express |
| Clerk of Works' Association, Journal of the | Liverpool Institute Schools Magazine |
| Clubman | Liverpool Journal of Commerce |
| Concord | Liverpool Mercury (daily and weekly) |
| Co-operative News | Liverpool Porcupine |
| Cornish Telegraph | Liverpool Post (daily and weekly) |
| Cowkeeper and Dairyman's Journal | Liverpool Review |
| Crescent | Liverpool Y.M.C.A. Journal |
| Decorator | Locomotive Engineers' and Firemen's Journal |
| Decorators' and Painters' Magazine | London Argus |
| Deliverer | Machinery Market |
| Educational Times | Mafeking Mail |
| Electrical Engineer | Mariner |
| Electrical Investments | Midland News |
| Electrician | Milling |
| English Churchman | Mission Field |
| Englishwoman's Review | Mona's Herald |
| Esmeduna | Musical Herald |
| Estates Gazette | Musicians' Report and Journal |
| Fire and Water | Nature Notes |
| Foresters' Miscellany | Naval Warrant Officers' Journal |
| Free and Open Association Advocate | New Century |
| Fruit-grower, Fruiterer, Florist, &c. | New Church Magazine |
| Gaelic Journal | New Ireland Review |
| Guild Gazette | Nonconformist Musical Monthly |
| Gwalia | Northampton Mercury |
| Herald of Peace | Oddfellows' Magazine |
| Herald of the Golden Age | Official Journal of the Patent Office |
| Hereford Times | Our Programme |
| Homeopathic World | Our Western Empire |
| Horological Journal | Oxford Chronicle |
| Incorporated Accountants' Journal | Paper Maker |

Paper Makers' Circular
 Patents
 Personal Rights Journal
 Petroleum Review
 Poor Law Officers' Journal
 Positivist Review
 Present Truth
 Preston Herald
 Printers' Register
 Public Health Engineer
 Railway Review
 Ramsey Weekly News
 Reports of Patents, Design, and Trade
 Mark Cases
 Rescue Notes
 Round World
 Sanitary Inspector
 Script Phonographic Journal
 Sheffield Weekly Independent
 Shipping World
 Shoe and Leather Record
 Society of Chemical Industry, Journal
 of

Sphinx
 Stanley Gibbons Monthly Journal
 State Correspondent
 Stationer, Printer, and Fancy Trades
 Register
 Stationery World
 Stonyhurst Magazine
 Student's Journal
 Temperance Chronicle
 Textile Journal
 Tool and Machinery Register
 Trade Journals' Review
 Trade Marks Journal
 Training Ship "Mercury" Magazine
 Travel
 Two Worlds
 University Correspondent
 Vaccination Inquirer
 Vegetarian Messenger
 Western Daily Press
 Worcestershire Herald
 Zoophilist

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THE MUSEUMS.

The Director of Museums furnishes the Fiftieth Annual Report upon the CONDUCT and PROGRESS of the Museums.

I.—GENERAL.

THE FREE PUBLIC MUSEUMS comprise:—

(A) the LORD DERBY MUSEUM, of which the nucleus was the collections bequeathed in 1851 to the City, by the Thirteenth Earl of Derby. It contains the *British Collections*, and the general *Zoological*, *Geological*, *Mineralogical*, and *Botanical* Departments, besides which there is an *Aquarium*, containing both Fresh and Salt Water Animals.

(B) the MAYER MUSEUM, the larger part of which was collected and presented to the Corporation in 1867, by Joseph Mayer, Esq., F.S.A. These collections are specially rich in (a) *Egyptian*, *Babylonian*, and *Assyrian Antiquities*; (b) *Mediæval European Ivories*, *Bronzes* and *Illuminated Manuscripts*; (c) the unrivalled *Brian-Faussett Anglo-Saxon Collection*; (d) the *Mather Miniatures*; and (e) the very important *Pottery Collections*, conspicuously rich in Wedgwood and Old Liverpool Wares. Associated with this Museum, as belonging more nearly to the subjects illustrated by it, though not forming to any large extent part of the Mayer Bequest, are (f) the *Ethnographical Collections*, chiefly of barbaric races.

The building, in which these collections are housed, was erected at the cost of the late Sir William Brown, in October, 1860.

The Exhibition Galleries are open free to the public, as under:—

During January, November, and December ..	from 10 to 4
„ February	„ 10 to 4-30
„ March and October	„ 10 to 5
„ April to September	„ 10 to 6
Also on Monday <i>Evenings</i> during January to	} „ 7 to 10
March, and October to December ...	

The Museums are closed on Sundays and Fridays (except the Fridays of Whit-, Easter- and Christmas-Weeks) throughout the year, as well as on Christmas Day, and days of Public Fast and Thanksgiving.

The Museums were represented by the Director at the British Association, which met at Belfast under the presidency of Professor Dewar, M.A., D.Sc., LL.D., F.R.S., in September, and at the Museums Association, which met at Bradford in July.

Since 1896, a period of seven years, 49,020 specimens of Natural History and 6,790 specimens of Ethnography, totalling close upon 56,000 specimens, have been added to the collection.

II.—VISITORS.

During the year there has been a considerable increase in the number of visitors to the Museums, compared with that of the previous year, as shown by the averages in the following table:

					1901.			1902.
					(262 Days)			(263 Days)
Total Visitors	...	...	...	...	304,942	...		310,472
Weekly Average	...	...	...	...	5,864	...		5,970
Daily Average	...	...	...	...	1,163	...		1,175

The attendance of school children under the charge of teachers has been well maintained, over 1,200 children and 75 teachers having availed themselves of the clause in the Education Code, whereby time devoted to instruction in Museums reckons as school attendance. On several occasions school teachers have made use of the Museum theatre to give special lessons to the children—specimens being brought from the Museum cases for the purpose. This is found to be of greater educational value than merely having a general visit with no specific object. In some cases lectures and demonstrations have been given by members of the Staff—arrangements having previously been made with the teachers and masters.

On the occasion of the annual visit of the Burnley Technical School, on Saturday, February 22nd, when over 100 adult members,

with Mr. Ernest Evans, the Head Master, visited the Museums, lectures and demonstrations were given by Mr. Clubb and Mr. Laverock, according to a previously arranged programme.

Persons desirous of employing the Museums for the purpose of research, reference or sketching may, by application to the Director, and on giving satisfactory references, obtain tickets enabling them to enter on Fridays, when there are special facilities afforded them for study. Tickets were issued, as usual, during the year (chiefly) to Artists and Students of Natural History, Osteology and Dental Anatomy, who have made extensive use of the collections. on the days the Museums were otherwise closed to the public.

The following, among others, have visited the Museums during the year for the purpose of inspecting the collections or other special object:—H. Wallace, University College, London; R. L. Hobson, British Museum; Dr. O. Vogt, Berlin; Prof. Anderson, Galway; C. R. Eastman, Harvard Museum, Cambridge, Mass., U.S.A.; C. F. Longfield, Science and Art Museum, Dublin; W. E. Hoyle, Owens College, Manchester; Prof. Boyd Dawkins, F.R.S.; F. Grant Ogilvie, Director, Science and Art Museum, Edinburgh.

III.—LECTURES.

Twenty-two Lectures were delivered by members of the Staff on Monday evenings, in the Theatre of the Museums. They were illustrated by specimens from the Museums and by lantern slides. The total attendance at the Lectures was 1,885.

The following is a list of the subjects:—

A course of four Lectures on “Some of the Plants we eat” was given by the Assistant in the Lord Derby Museum, Mr. W. S. Laverock, M.A., B.Sc.:—

Jan. 13th.—“The Turnip, the Cabbage and the Cauliflower.” I.

Jan. 20th.—“The Turnip, the Cabbage and the Cauliflower.” II.

Jan. 27th.—“The Apple and the Pear.”

Feb. 3rd.—“The Pea and Bean.”

Also three Lectures on "The Time when the Geological Foundations of Liverpool were laid," as follows:—

Feb. 10th.—"The Rocks that constitute the foundations." I.

Feb. 17th.—"The Rocks that constitute the foundations." II.

Feb. 24th.—"The Plants and Animals of the Period."

Two Lectures on "Elephants, Living and Extinct," were given by the Assistant Curator of the Lord Derby Museum, Mr. Joseph A. Clubb, M.Sc.:—

Mar. 3rd.—"Living Elephants."

Mar. 10th.—"Extinct Elephants."

Two Lectures on "New Light on Old Monuments" were given by the Assistant Curator of the Mayer Museum, Mr. P. Entwistle:—

Mar. 17th.—"New Light on Old Monuments." I.

Mar. 24th.—"New Light on Old Monuments." II.

A Lecture was given by the Director of Museums:—

Oct. 13th.—"The Arrangement of the Collections in the Extended Museums."

A course of six Lectures on "Elementary Zoology—the Grades of Animal Life," was given by the Assistant Curator of the Lord Derby Museum, Mr. Joseph A. Clubb, M.Sc.:—

Oct. 20th.—"Life without Organs."

Oct. 27th.—"The beginnings of Organs." I.

Nov. 3rd.—"The beginnings of Organs." II.

Nov. 10th.—"Jointed Animals." I.

Nov. 17th.—"Jointed Animals." II.

Nov. 24th.—"Vertebrate Types."

A course of four Lectures on "The Natural History of Volcanoes" was given by the Assistant of the Lord Derby Museum, Mr. W. S. Laverock, M.A., B.Sc.:—

Dec. 1st.—"Introduction—What is a Volcano?"

Dec. 8th.—"The Sources and Causes of Volcanic Action."

Dec. 15th.—"The Products and Phenomena of the Active Volcano."

Dec. 22nd.—"The Traces of Ancient Volcanoes."

A. LORD DERBY MUSEUM.**ZOOLOGICAL DEPARTMENT.****(a) GENERAL.**

The Director has much pleasure in testifying to the care and attention to duty given by all the members of the Staff.

Several dredging excursions have been undertaken during the year to the estuary of the Mersey and the Irish Sea, for the purpose of collecting specimens for the Local Collection of Marine Fauna, with which the Museum has for a long time been very poorly provided. These excursions have been rendered possible through the kindness of the City Engineer's Department, the Sanitary Sub-Committee having given permission for the Director to occasionally place members of the staff on board the "Beta," when on its periodic visits to the "Deposit Grounds," near the North-West Lightship. This vessel has been utilised also for the purpose of bringing fresh seawater from beyond the North-West Lightship for supplying the Aquarium. The thanks of the Committee are due to Captain Griffiths for his most willing help and courtesy during not only the trips on which the officers have accompanied him, but on other occasions when he has brought in objects of interest to the Museum which have fallen in his way. These excursions have already resulted in the acquisition of some hundreds of specimens, mostly unrepresented previously in the collection, including many very rare forms. Among these, one species of fish (*Callionymus maculatus*) was taken on several occasions which had not previously been recorded from the Irish Sea. When the identification of this species by Mr. Clubb was made known, it was discovered that specimens had been obtained previously by the officers of the Lancashire Sea Fisheries, but they had remained unrecognised, and had been stored away in a jar at University College, along with the common species (*C. lyra*).

In the month of May the new extension buildings were finally handed over by the Contractors to the Committee, and in July the bronze-steel cases, designed by Mr. Ashworth (of Messrs. Haigh and Co.) and the Director, for the reception of the collections, began to be delivered.

The upper floor of the Museum is devoted to the systematic biological and geological collections, as detailed fully in a Report presented to the Committee in January, 1901. The lower floor is to contain the Local Area collections drawn (without any very hard and fast line) from within the boundaries circumscribed in the map given in that Report.

Attention has been specially devoted to making progress on the upper floor with the re-arrangement of the collections, many of which had to be unhoused owing to the removal of the cases in which they stood, to admit of the installation of the ventilating system. These systematic collections now commence with a series of specimens arranged to serve as an introduction to zoological structure and classification. In succession have been placed on exhibition the main representatives of Man, Anthropoids, Lemuroidea, Chiroptera, Insectivora and the Carnivora. The remaining orders are being displayed as rapidly as cases are delivered.

On the lower floor the "Local Area" collections have been commenced, and illustrations of Local History and Archæology, and examples of Liverpool Pottery have already been displayed. A commencement has been made also in exhibiting the local Mammals in their natural surroundings. The cases already fitted up here attracted special interest.

During the year a series of cabinets, with interchangeable drawers, has been erected on a gallery round one of the rooms of the upper floor in the old section of the Museum, to contain the Study Collection of birds. In these cabinets nearly 20,000 skins have now been arranged, and will shortly be available for the use of students. The erection of an additional study gallery has been arranged for during 1903 on the adjoining transept, to contain the unmounted skins of the remainder of the birds, of the mammals, and the study series of the invertebrates.

The Science Cabinets have been distributed to the various Elementary Schools in the City as in former years, and the applications have become more numerous for specimens for object lessons (mainly Natural History), and for the series of Technical Appliances

on loan from the Museums. The increase in the applications for Museum specimens has necessitated considerable additions to the loan collections.

The Director, in furnishing to the Committee a Report on the use of the Collections of the Liverpool Museums made by the Elementary Schools of the City, to accompany the Specimens of the Science Cabinets circulated to these schools, exhibited at the Nature-study Exhibition held in London, on July 23rd, 1902, remarked that for some considerable time organised efforts had been made by the Museums Sub-Committee of the City Council to make the Natural History and other collections of the city of direct educational value to the children attending the elementary schools—public and private. In view of the increased appreciation of late years by educational authorities of the value of Nature Study as part of the curriculum of elementary school training, a brief account of the arrangements and facilities afforded by the Liverpool Museums in this direction may be of interest.

Obviously the two ways of utilizing Museum Collections for school children are (A) by bringing the school children to the specimens and (B) by taking the specimens to the school children. In both these directions facilities are granted in the Liverpool Museums.

(A) The recognition in the Education Code of time devoted to instruction in museums as school attendance, has enabled teachers to bring the scholars in classes to our Museums during school hours. Such visits previously had to be done in other than school hours, and consequently were not very frequent. A commodious lecture theatre, existing in the Building, is set apart for their use, to which specimens required for the lessons may be conveyed; or the classes group themselves around certain of the cases, from which the public for the time being are excluded by temporary barriers; or the Aquarium is visited, and one or more of the living animals in the tanks forms the subject of the lesson. Occasionally simple demonstrations in popular language are given to them by members of the Staff.

Each teacher, of course, has his own idea of the better way to utilize such visits. The more general and probably more efficient method from an educational standpoint is as follows:—Care is taken not to endeavour to cover too wide a field, and one or two cases or a group of specimens, is selected which illustrates some important facts in Nature. The teacher, or one of the Museum Staff, gives a brief and simple demonstration, in which these particular facts are emphasized, and the inter-relation between the specimens pointed out. The children, with note-book in hand, are then left to themselves, with the simple instruction to limit themselves to these particular specimens, and to make drawings and notes of any of them. The next day, in school, they are called upon to write a short essay, with the help of their drawings and notes, on their visit to the museum. From inquiries made, the instruction thus imparted is found very satisfactory, and of far greater educational value than is the case when the class wanders indiscriminately through the galleries, with no special object. Every encouragement is given to teachers to make use of the Museums in this way, and it is gratifying to record an increasing appreciation of these facilities by the teachers.

The Introductory Room to the general collection of animal groups on the upper floor of the recently completed extended galleries, is especially suitable for lessons of this character, and has already been made use of on several occasions by the schools. Its arrangement is as follows:—On entrance a case is set out, in which, under a tabular statement that all matter is divisible into inorganic and organic groups, specimens of rocks and animals are shown under these respective heads. Then of the organic group of plants and animals (examples of which are contrasted), taking animals, the chordates or vertebrates are contrasted with invertebrates by typical specimens. Next follows a series of special exhibits, arranged so as to bring before the eye as prominently as possible the comparative characters of the classes of the Chordata. In the first case is a series of stuffed specimens—mammal, bird, reptile, amphibian and fish, &c.—arranged in the order named one below the other. A concise explanatory label is attached, drawing attention to the principal points to observe, *i.e.*, the

external characters of each (hair, feathers, scales, &c.); modifications of form and structure adapted to different habits of life (legs, wings, webbed feet, swimming tail), &c. In succeeding cases correspondingly arranged are series of skeletons; bisected skulls and skeletons; dissections of general abdominal viscera: injections showing blood circulations; dissections of nervous systems; models of brains, &c., of each vertebrate type, each series being accompanied by a descriptive label, drawing special attention, in as simple language as possible, to the points of agreement and contrast. Commencing with the mammalia, its different orders are treated in a similar manner along the opposite side of the room.

(b) The arrangements made for the conveyance of museum specimens to the children may conveniently be divided into two sections—(a) by means of circulating cabinets, containing groups of Natural History or other specimens, which are correlated one with the other, and arranged, as far as possible, so as to convey a definite lesson of educational value—what has been described as a small circulating museum; and (b) the formation of a Loan Collection, from which specimens are lent out as applied for by the teachers.

(a) It was in the year 1884 that the Museums Committee first sanctioned the formation of circulating cabinets of Natural History, for the use of schools, and in consultation with the School Board and other School Managers a working scheme was organised for their periodical circulation.

The cabinets are of the plainest character, made of deal, strengthened by small black metal clasps, with a hanging down handle on each side, by which they may be conveniently carried in an upright position. The majority measure 17 inches long, $17\frac{1}{2}$ inches high, and $12\frac{1}{2}$ inches deep—a size which is found convenient for most of the specimens. Vertebrates, however, require a larger size, and for them cabinets measuring 32 inches long, 17 inches high and 16 inches deep are found necessary. Sliding trays with a raised rim fit into grooves fixed on the inner side of the cabinet, and in these trays the specimens are contained in boxes which are of multiple sizes, fitting the trays. When the specimens are such as cannot be handled without fear of damage, they are placed in a glass topped

box, otherwise easy fitting opaque lids are used, and the specimens may be taken out and handled by the student. The trays are readily drawn out, and the contents of the cabinets may be displayed with great facility. As a rule only one specimen of a species is contained in each box, and a distinguishing number is placed conspicuously upon it. The specimen boxes are numbered, and their positions in the trays bear corresponding numbers, so as to ensure the return of each specimen to its right box and each box to its right place in the tray after use. A descriptive label accompanies each specimen, and a list of the specimens contained in the cabinet is attached to the lid, with fuller descriptions under numbers corresponding to the numbers on the specimens, and in addition a sentence or two drawing attention to the special character of the cabinet as a whole. The specimens themselves are selected with care, and in no case are inferior or non-typical specimens used, and they are arranged in the cabinet as far as possible to illustrate some definite fact in nature, such as, the organic origin of coal, the uses of the animal or its skeleton in the economic world, or examples of the various ways in which shells are manufactured into articles of commerce.

There are now 25 of these Natural History cabinets in circulation, and 75 schools and institutions are receiving them in rotation. The latter consist of 48 Denominational schools, 25 Board schools and 2 Training-colleges for pupil teachers. For distributional purposes our area is divided into two districts—a north and a south—and the cabinets are distributed each month alternately to the schools in the two districts. The schools are under no expense, both the distribution and collection being undertaken by the Museums. Notice is sent to each school a few days before the delivery of the cabinet, and in the cabinet itself is placed an intimation of the date of collection, so that each school knows how long the cabinet will remain at its disposal.

A brief account of a few of the subjects and contents of these School-cabinets may be of interest.

In the Coal cabinet above referred to (see Fig. 1), the organic origin of coal is demonstrated by specimens of sphagnum (wood fibre or cellulose), peat, lignite, bituminous coal, common coal and



FIG. 1.

Cabinet of Coal and Coal Plants; arranged to demonstrate the organic origin of Coal.



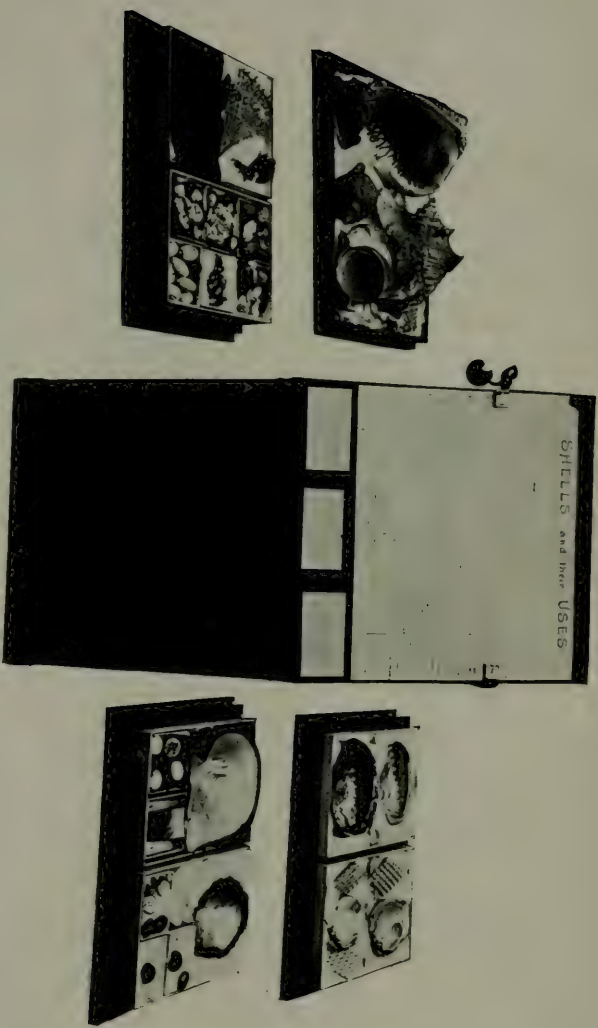


FIG. 2.

Cabinet of Shells; arranged to show the economic uses of Shells.

anthracite, arranged in the order mentioned. In addition there are included specimens of characteristic coal fossils. The cabinet named "Shells and their uses" contains specimens illustrating stages in the manufacture of buttons, knife-handles, &c., together with the shells from which they are taken (see Fig. 2).

A series of cabinets is arranged so as to exemplify the characters of the principal groups of the animal kingdom. In the "Star-fish and Sea-urchin" cabinet, a descriptive label draws attention to the essential characters of the group of the Echinoderma, with references to the specimens of star-fishes, sea-urchins and sea-cucumbers, contained in the cabinet. The coelenterons, molluses, insects, crustaceans, fishes, amphibians, reptiles, birds and mammals are similarly treated. Of the other cabinets, some are of a geological character, illustrating "Rocks," "Polished Stones," &c.; and others of a botanical character, illustrating "Palms and their uses," "Dyes and Tans," "Textile Plants," &c. It is proposed shortly to issue along with each cabinet a type-written or printed description, which will serve as a guide to the teacher in giving lessons on the cabinet to the children.

(b) The Loan Collection, from which specimens of Natural History are lent to teachers on application, consists of a series of the commoner types, and has gradually been formed according to the demands made for specimens—any object asked for, if possible, being added from the duplicate specimens of the main collection, if not already in it, so that the character of the Loan Collection has been brought together entirely by the demand. Typical representatives of the main animal Phyla; the common British species of these groups: comparative series of bird forms, with nests and eggs; insects and their life-histories, &c., constitute the greater portion of this collection. Application is made in writing by Head Masters or Mistresses, and the specimens are taken away forthwith by their messenger, if possible, or if not, in the course of a day or two. It is satisfactory to record here also an increasing demand for specimens, and the Loan Collection has in consequence been considerably enlarged during the last year or two. That these efforts to interest school children in Nature study are producing good results is strikingly demonstrated

by the way in which school children avail themselves of holidays to voluntarily visit our Museums—the fact of the occurrence of a school holiday being of late always unmistakeably indicated by the invasion of the Museums by school children, who evince a growing interest in the exhibits.

(b) CONSERVATION.

All the collections on exhibition have been periodically examined, dusted and kept free from moth or other pest. The store cabinets and tanks, containing specimens preserved in fluid, have also been systematically gone over for the purpose of renewing the spirit or other preservative. The store cabinets have also had constant attention, the entomological collections especially requiring frequent examination.

(c) LOANS.

The following loans of Museum specimens for purposes of study were made during the year :—

Nine specimens of two species of Sokotran birds were lent to the Director of the Natural History Museum, Vienna.

Eighty-two specimens of species of *Lanius*, and the type specimen of *Ortyx pectoralis* were lent to Dr. Bowdler Sharpe, British Museum.

Nine specimens of species of *Turdus* were lent to E. Hartert, Esq., Tring Museum.

The type specimens of *Crithagra rendelli* ♂ and ♀, were lent to Prof. Reichnow, Berlin.

(d) PRESENTS.

During the year the Museum Collections have been enriched by a large number of presentations. of which the following deserve special mention :—

Specimens of a Sun-fish (*Orthogoriscus mola*) and a Porbeagle Shark (*Lamna cornubica*) taken by trawlers off the coast of Ireland, were presented by Messrs. Harley and Miller, St. John's Market, Liverpool.

The skull, horns and skin of the Himalayan Ibex (*Capra sibirica*), and skins of the Wild Camel (*Camelus bactrianus*), and Saira Sheep (*Ovis sairensis*), were presented by St. George Littledale, Esq.

(c) ACQUISITIONS.

INVERTEBRATES—

Porifera (Sponges).

Eight sponges (*Suberites domuncula*), from the estuary of the River Mersey (D. 22. 7. 1902. 24, and D. 21. 8. 1902. 19); trawled by the Assistant Curator and Laboratory Assistant, from the s.s. "Beta."

Coelenterata (Zoophytes, Sea Anemones, etc.)

Four Sea Anemones (one *Metridium dianthus* and three *Sargartia ornata*?) (D. 20. 5. 1902. 11 and 12); Colony of Zoophytes (*Antennularia ramosa*); number of Zoophytes (*indet.*) attached to broken earthenware (D. 4. 6. 1902. 14 and 15); (*Antennularia ramosa*) (D. 22. 7. 1902. 16); five specimens of Medusæ (*Aurelia aurita* and *Cyanea capillata*) (D. 21. 8. 1902. 17 and 18), from the estuary of the Mersey; trawled by the Assistant Curator and Laboratory Assistant, from the s.s. "Beta."

Echinoderms (Star-fishes, Sea-urchins, etc.)

Six Star-fish *Astropecten irregularis*, *Solaster papposus* and *Henricia sanguinolenta* (D. 20. 5. 1902. 1-3), one *Spatangus purpureus* (D. 22. 7. 1902. 8), three Common Sand Stars (*Ophiura ciliaris*), number of Lesser Sand Star (*O. albida*), eight *Echinocardium cordatum* and one *Solaster papposus* (D. 21. 8. 1902. 1-3 and 9); from the estuary of the Mersey; trawled by the Assistant Curator and Laboratory Assistant, from the s.s. "Beta."

One Long-spined Sea-urchin, from the West Coast of Ireland (D. 7. 7. 1902. 1); collected and presented by Capt. Jennings, steam trawler "Rambler."

Vermes (Worms, etc.)

Six Annelids (*indet.*) and tubes (D. 20. 5. 1902. 13), one Sea-mouse (*Aphrodite aculeata*), one *Sp. indet.* and one *Polynoe sp.* (D. 4. 6. 1902. 11, 12, 13), one *Leptoplana tremellaris*, and various Annelids

with tubes (D. 22. 7. 1902. 17 and 23), three Annelids (one *Aphrodité aculeata* and two *indet.*) (D. 21. 8. 1902. 15, 16), from the estuary of the Mersey; trawled by the Assistant Curator and Laboratory Assistant, from the s.s. "Beta."

Polyzoa.

Specimens of Polyzoa attached to broken earthenware from the estuary of the Mersey (D. 4. 6. 1902. 15); Colonies of *Amathia lendigera*; *Gemellaria loricata*; *Crisia eburnea*; *Bugula aricularia* and *B. turbinata* (D. 22. 7. 1902. 17-22); trawled by the Assistant Curator and Laboratory Assistant, from the s.s. "Beta."

Arthropoda.

Crustacea (Crabs, Lobsters, etc.)

Two Shrimps (*indet.*) from the Estuary of the Mersey (D. 22. 3. 1902. 1); Hermit Crabs (*Eupagurus* sp.), Parasitic Cirripede (*Peltogaster paguri*), and one Swimming Crab (*Portunus depurator*), (D. 2. 7. 1902. 1.; D. 17. 7. 1902. 1-2); five Crabs (*indet.*), and one Hermit Crab (*indet.*), from the estuary of the Mersey (D. 21. 8. 1902. 13. 14); collected and presented by Captain Griffiths, of the "Beta."

Five Spider Crabs (*Hyas coarctatus*), two Hermit Crabs (*Eupagurus bernhardus*), one Slender Spider Crab (*Stenorhynchus tennirostris*) and one Hermit Crab (*Eupagurus hyndmanni*), (D. 20. 5. 1902. 14-17); four Spider Crabs (one *Hyas coarctatus* and three *Inachus dorsettensis*), and one *Galathea nexa* (D. 4. 6. 1902. 6-8); one *Egeon fasciatus*, four *Porcellana longicornis*, three *Eupagurus bernhardus*, six *E. cuanensis*, four *E. prideauxii*, one *Ebalia cranchii*, and one *Portunus depurator* (D. 22. 7. 1902. 1-7); and six Crabs (D. 26. 8. 1902. 13 and 14); from the estuary of the Mersey, trawled by the Assistant Curator and Laboratory Assistant, from the s.s. "Beta."

Crab (*indet.*), (in spirit) from Iquitos (D. 11. 8. 1902. 1); presented by D. B. Adamson, H.B.M., Consul at Iquitos.

One Stone Crab (*Lithodes maia*), from Kirkeudbright (D. 5. 11. 1902. 1); presented by Scott Byrne, Esq., 205, Upper Parliament Street, Liverpool.

Tracheata. (Insects, Spiders, etc.)

Spider (*indet.*), living from West Africa (D. 20. 1. 1902. 1); presented by Mr. H. R. Maggs, 4, Devon Avenue, Liscard.

Saw Fly (*Sirex gigas*) living (D. 6. 3. 1902. 1); presented by Mr. R. Coupland, 22, Arkles Road, Bootle.

Moth (*indet.*) from Monte Video, River Plate (D. 12. 3. 1902. 1); presented by Capt. Cooper, s.s. "Orissa."

Two Beetles (*indet.*) from Sassandra, Ivory Coast, West Africa. (D. 4. 4. 1902. 1); presented by Mr. A. Ridyard.

Six Velvety Mites (*Trombidium* sp.) from Dahomey (D. 30. 5. 1902. 1); presented by W. Bailey Sharp, Esq., c/o J. Holt & Co., Porto Novo, Dahomey.

Poplar Hawk Moth (*Smerinthus populi*) (D. 8. 7. 1902. 1) and Spider (*indet.*) (D. 12. 7. 1902. 1); Moth (*indet.*) (D. 31. 7. 1902. 1), found in street gas lamp: presented by the Lighting Department.

Six spotted Burnet Moth (*Zygæna fillipendula*) from Colwyn Bay, North Wales (D. 15. 7. 1902. 1); collected and presented by Mr. C. Merriman, 12a, James Street, Liverpool.

Dragon Fly (*Anax formosus*) from Harthill, near Sheffield (D. 7. 8. 1902. 1); collected and presented by Mr. Wright Peat, Fir Vale, Harthill, near Sheffield.

Beetle (*Melalontha* sp.) from Kamloops, Africa (D. 10. 8. 1902. 1); collected and presented by Mr. T. A. Shackleton.

Thirteen specimens of Coleoptera, Hemiptera, and Hymenoptera, one Lantern Fly, one Locust, and one Mosquito (*indet.*), from Iquitos (D. 11. 8. 1902. 3-8); presented by D. B. Adamson, Esq., H.B.M. Consul at Iquitos.

Small collection of Australian Lepidoptera consisting of fourteen specimens of six species (D. 26. 8. 1902. 1-6) from North Queensland; presented by Mr. H. C. Robinson, Aigburth, Liverpool.

Eighteen specimens of British Beetles, viz.:—twelve *Aegialia ruja* and six *Montura chrysanthemi*, from Birkdale and Southport (D. 2. 9. 1902. 1 and 2); collected and presented by Mr. E. J. B. Sopp, 104, Liverpool Road, Birkdale.

Spider (*indet.*) from Wallasey (D. 15. 9. 1902. 1); collected and presented by Mr. P. Entwistle.

Spider (*indet.*) and young with nest on Bramble leaf from Ince Blundell (D. 25. 9. 1902. 1); collected and presented by Mr. W. Hibbert.

Centipede (*indet.*) found among cargo of ship from India (D. 27. 9. 1902. 1); presented by Mr. A. Grudgeman, 21, Palatine Road, Seacombe.

Mollusca. (Shells, etc.)

A collection of fossil shells of the genus *Clausilia*, consisting of fifty-five specimens representing the following seventeen species:—*C. parvula*, *C. bidentata*, *C. biplicata*, *C. pumila*, var. *sejuncta*, *C. laminata*, *C. striatula*, *C. tenuisculpta*, *C. plicata*, *C. corynodes*, *C. suturalis*, *C. buliformis*, *C. schwazeri*, *C. levlonga*, *C. medlycotti*, *C. filograna*, *C. dubia*, *C. longa*, from various localities in England and Germany, (D. 17. 3. 1902. 1-17); purchased.

Four specimens, with animals of *Pecten opercularis* (D. 16. 5. 1902. 1., D. 16. 7. 1902. 1., & D. 17. 7. 1902. 3) from the Estuary of the Mersey; collected and presented by Capt. Griffiths of the "Beta."

Sea Slug (*Doto fragilis*), one Cuttle-fish (*Eledone cirrhosus*), one Spiny Cockle (*Cardium aculeatum*), five Whelks (*Fusus antiquus*, number of small Clams (*Macra elliptica*), one Tellina (*Tellina donacina*), three Top Shells (*Trochus zizyphinus*), (D. 20. 5. 1902. 4-10); several *Anomia ephippium*, Clam (*Pecten opercularis*), and two Oysters (*Ostrea edulis*), (D. 4. 6. 1902. 9, 15 and 16); three Nudibranchs (*Coryphella landsburgi*, *Archidoris johnstoni*, *Acanthodoris pilosa*), three *Cardium norvegicum*, and two *Fusus islandicus* (D. 22. 7. 1902. 9-13); one Oyster (*Ostrea edulis*), seventeen *Tellina proxima*, one *Nucula nucleus*, one *Lamellidoris proxima*, and one *Carolina arenicola* (?) (D. 21. 8. 1902. 4-8); from the estuary of the Mersey. Trawled by the Assistant Curator and the Laboratory Assistant, from the s.s. "Beta."

Eight Land Shells (*Clausilia nigricans*) from Settle, Yorkshire, (D. 24. 7. 1902. 1); collected and presented by Mr. J. A. Clubb.

Two opercula of *Turbo petholatus* from Perim (D. 6. 8. 1902. 1); presented by Mr. Richard Whitelock, 106, South Chester Street, Toxteth Park, Liverpool.

Snail (*Limax agrestis*) from yard of Museums (D. 13. 9. 1902. 1).

Eight Valves of Shells (*Cardium costatum*) and one shell (*Triton sp.*) from Axim, and 9 Valves of Shells (*Cardium costatum*) from Nana Kroo, Liberia, West Africa (D. 29. 9. 1902. 1-4) presented by Mr. A. Ridyard.

Tunicata. (Sea-squirts, etc.)

Two simple Ascidians (*Ciona intestinalis*) (D. 20. 5. 1902. 18), (*Styela grossularia*) (D. 4. 6. 1902. 10), a number of specimens of *Amaroucium* and *Leptoclinum* spp. (D. 22. 7. 1902. 14 & 15) from the estuary of the Mersey; trawled by the Assistant Curator and Laboratory Assistant, from the s.s. "Beta."

VERTEBRATES.

Fishes.

Two American Cat-fish (*Amblyurus catus*) (C. 26. 2. 1902. 1 and C. 19. 3. 1902. 1); purchased.

One Ray (*Raja clavata*) (C. 22. 3. 1902. 1); one Great Pipe Fish (*Syngnathus acus*) and one plaice (*Pleuronectes platessa*) (C. 3. 4. 1902. 1 and 2, C. 26. 11. 1902. 1); Yellow Gurnard (*Trigla lucerna*) (C. 17. 5. 1902. 1); Dragonet (*Callionymus maculatus*) and two lesser spotted Dog-fish (*Scyllium canicula*) (C. 16. 7. 1902. 1 and 2); Picked Dog-fish (*Acanthis vulgaris*) (C. 21. 5. 1902. 1 and C. 25. 11. 1902. 1); Flounder (*Pleuronectes flesus*) (C. 26. 11. 1902. 2); from the estuary of the Mersey; collected and presented by Captain Griffiths of the "Beta."

Fish (*indet*) from Sassandra, Ivory Coast, W. Africa (C. 4. 4. 1902. 1); presented by Mr. A. Ridyard.

Ruffe (*Acerina vulgaris*) ♀ from the river Alwyn, North Wales (C. 14. 5. 1902. 1); collected and presented by Mr. Coupland, City Angling Club, Liverpool.

Crucian Carp (*Carassius carassius*) (C. 15. 5. 1902. 1), and two Tench (*Tinca tinca*) (C. 16. 5. 1902. 1.), from Stanley Park Lake; collected and presented by Mr. Harthill, 62, Everton Valley, Liverpool.

Wax Model of brain of Trout (*Salmo trutta*) (C. 29. 5. 1902. 1); purchased.

Block's Top-Knot (*Scophthalmus unimaculatus*), nine Dragonets (*Callionymus lyra* and **C. maculatus*) (C. 20. 5. 1902. 1 & 2, C. 22. 7. 1902. 2. and C. 21. 8. 1902. 4), two Gurnards (*Trigla gurnardus* and *T. cuculus*) (C. 20. 5. 1902. 4. & C. 4. 6. 1902. 1) Lemon Dabs (*Pleuronectes microcephalus*) (C. 22. 7. 1902. 1. and C. 21. 8. 1902. 1); Solenette (*Solea lutea*), Whiting (*Gadus merlangus*) (C. 21. 8. 1902. 3 and 4): trawled from s.s. "Beta," N. W. of the North West Lightship, by the Assistant Curator (Mr. J. A. Clubb).

King of the Herrings (*Chimera monstrosa*) from N. N. W. Blasquet Islands, West Coast of Ireland (C. 14. 7. 1902. 1); collected and presented by Messrs. Harley and Miller, St. John's Market, Liverpool.

Bream (*Abramis blicca*) from the river Alwyn, Rossett, North Wales (C. 26. 7. 1902. 1); collected and presented by Mr. Fothergill, City Angling Club, Liverpool.

Small Hammer-headed Shark (*Zygæna sp.*) from Patani Bay, Malay Peninsula (C. 26. 8. 1902. 1); collected and presented by Messrs. Annandale and Robinson.

Sun Fish (*Orthogoriscus mola*) from N.N.W. of the Scillies (C. 3. 9. 1902. 1); collected and presented by Messrs. Harley and Miller, St. John's Market, Liverpool.

Nineteen Walking Fish (*Periophthalmus koelreuteri*), from Bathurst, West Coast of Africa (C. 29. 9. 1902. 1); presented by Mr. A. Ridyard.

Four Sticklebacks (*Gasterosteus pungitius*) from Wallasey Marsh (C. 9. 10. 1902. 1); collected for the Aquarium.

Porbeagle Shark (*Lamna cornubica*) from Instrahull, off West Coast of Ireland (C. 21. 11. 1902. 1); collected and presented by Messrs. Harley and Miller, St. John's Market, Liverpool.

* This is a new record for this species from the Irish Sea.

Amphibians.

Model in wax of brain of frog (*Rana temporaria*) (C. 29. 5. 1902. 2); purchased.

Dissection of viscera and injected preparation showing blood circulation of Salamander (*S. maculosa*) (C. 25. 7. 1902. 1); purchased.

Tree Frog (*indet.*) from Grand Canary (C. 23. 6. 1902. 1); presented by Mr. George H. Jones, 446, Mill Street, Liverpool.

Tree Frog (*indet.*) from Iquitos (C. 11. 1902. 1); presented by D. B. Adamson, Esq., H.B.M. Consul at Iquitos.

Two Frogs (*Rana tigrina*) from Ceylon (C. 3. 10. 1902. 1); purchased.

Reptiles.

Six Snakes (*indet.*) (B. 4. 4. 1902. 6); Skin of Lizard (*Varanus sp.*) (B. 30. 9. 1902. 1) from Sassandra, Ivory Coast, West Africa; presented by Mr. A. Ridyard.

Skull of Alligator (*indet.*) from one of the Chinqui Rivers, Central America (B. 12. 5. 1902. 1); presented by Mr. Frederick Alcock, Shrewsbury Road, Oxtou.

Gecko (*indet.*) from Grand Canary (B. 23. 6. 1902. 1); presented by Mr. George H. Jones, 446, Mill Street, Liverpool.

Birds.

Model in wax of Brain of Pigeon (B. 29. 5. 1902. 1); purchased.

Dissection of Muscles of Flight and of the Respiratory Apparatus of Bird (*Corvus sp.*) (B. 25. 7. 1902. 1); purchased.

Golden Pheasant (*Chrysolophus pictus*) from the Aviary at Stanley Park (B. 4. 2. 1902. 1); presented by the Parks and Gardens Committee *per* the Superintendent.

Two Gulls (*Larus bulleri*) ♂ and ♀, from New Zealand (B. 5. 2. 1902. 1); purchased.

Black Cock (*Tetrao tetrix*) ♂, (B. 15. 2. 1902. 1); purchased.

Two Herring Gulls (*Larus argentatus*) ♂, and one Greater Black-backed Gull (*Larus marinus*) ♂, (B. 19. 2. 1902. 1 and 2); Herring Gull (*Larus argentatus*) ♂ and two Guillemots (*Uria troile*) (B. 27. 2. 1902. 1 and 2); Lesser Black-backed Gull (*Larus fuscus*) ♂ (B. 15. 4. 1902. 1); two Kittiwake Gulls (*Rissa tridactyla*) ♀ (B. 28. 4. 1902. 1 and B. 21. 5. 1902. 1); Gannet (*Sula bassana*) (B. 22. 7. 1902. 1); from the estuary of the Mersey, collected and presented by Captain Griffiths, s.s. "Beta."

Sparrow (*Passer domesticus*) albino var. (B. 26. 2. 1902. 1); presented by Mr. F. P. Marrat.

Two Asiatic Larks (*Alauda tartarica*) (B. 27. 2. 1902. 1); purchased.

Bird of Paradise (*Parotia sp.*) (B. 3. 1902. 1); purchased.

Albatross (*Diomedea exulans*) (B. 16. 4. 1902. 1); collected and presented by Capt. Henning, s.s. "Raeburn."

Hawfinch (*Coccothraustes vulgaris*) ♀ from Burton Point, Burton, Cheshire (B. 29. 4. 1902. 1); presented by Dr. Bickerton.

Starling (*Sturnus vulgaris*) albino var. (B. 2. 6. 1902. 1); presented by A. A. Paton, Esq., "Oneida," Sefton Park, Liverpool.

Meadow Pipit's Nest and Four Eggs (*Anthus pratensis*) from Wallasey (B. 7. 7. 1902. 1); collected and presented by Mr. P. Entwistle.

Two Nestlings of Peregrine Falcon (*Falco peregrinus*) from the Pembrokeshire Coast (B. 8. 7. 1902. 1); purchased.

Nightjar (*Caprimulgus europæus*) from Knowsley (B. 9. 7. 1902. 1); purchased.

Hornbill (*indet.*) from Winnebah, Gold Coast, West Africa (B. 10. 7. 1902. 1); presented by Mr. A. Ridyard.

Nest and Four Eggs of House Sparrow (*Passer domesticus*) from Tynwald Hill, West Derby (B. 12. 7. 1902. 1); collected and presented by Mr. H. Stam, 98, West Derby Road, Liverpool.

Nestling (*indet.*) from Hoylake (B. 13. 7. 1902. 1); collected and presented by the Director of Museums.

Blue Mountain Lory (*Trichoglossus novæ-hollandiæ*), Purple Gallinule (B. 24. 7. 1902. 1 and 2); Nicobar Pigeon (B. 15. 12. 1902. 1) and Red Crested Cardinal (B. 24. 12. 1902. 1) from the Aviary at Newsham Park; presented by the Parks and Gardens Committee *per* the Superintendent.

Three Birds (*indet.*) from Iquitos (B. 11. 8. 1902. 1); presented by D. B. Adamson, Esq., H.B.M. Consul at Iquitos.

Hen Harrier (*Circus cyaneus*) (B. 28. 8. 1902. 1); from Knowsley; purchased.

Spotted Grieve (*Margarops albiventris*) ♀ from Grenada, West Indies (B. 3. 9. 1902. 1); presented by Rev. Canon Tristram.

Cormorant (*Phalacrocorax harrisi*) ♂, from Narborough Island, Galapagos Group (B. 4. 9. 1902. 1.); purchased.

Nest of Marsh Tit (*Parus palustris*) *in situ*, in stump of tree from St. Leonards (B. 6. 9. 1902. 1.); collected and presented by Messrs. M. J. Nicoll and A. M. Cox *per* the British Museum (Nat. Hist.).

Bird (*indet.*) flew on board s.s. "Niger" between Sierra Leone and Bathurst (B. 29. 9. 1902. 1); presented by Mr. A. Ridyard.

Plumes of Peacock (*Pavo cristatus*) (B. 7. 11. 1902. 1); presented by Mr. Maddox, St. John's Market.

Canadian Owl (*sp. indet.*) from the Aviary at Selton Park (B. 18. 11. 1902. 1); presented by the Parks and Gardens Committee, *per* the Superintendent.

Mammals.

Dissection of Leg Muscles of Rabbit (*Lepus cuniculus*), and dissection of Knee and Tendon of Dog (*indet.*) (A. 25. 7. 1902. 1 and 2); purchased.

Wax Model of Brain of Dog (A. 29. 5. 1902. 1); purchased.

Three pairs of Horns of Siberian Roe-deer (*Capreolus caprea*) (A. 20. 1. 1902. 1); presented by Mr. Rowland Ward, London.

Twelve Bats in preservative fluid, including *Hemiderma brevicauda*; *Glossophaga soriena*; *Phyllostoma hastatum*; *Noctilio albiventer*;

Molossus rufus, *M. obscurus*; *Saccopteryx bilineata*; from Para (A. 21. 1. 1902. 1-7): presented by Dr. Goeldi, Curator of the Goeldi Museum, Para, *per* the British Museum.

Head of Water Buck from the Sudan (A. 22. 1. 1902. 1): purchased.

British Hare (*Lepus timidus*) ♀, from Cumberland; (A. 23. 1. 1902. 1): Fox (*Canis vulpes*) ♂, ad. from Cheshire (A. 10. 2. 1902. 1): Two Moles (*Talpa europæa*) ♂, ♀, from Wither-slack, near Grange-over-Sands, Lancashire (A. 13. 3. 1902. 1., A. 22. 3. 1902. 1): purchased.

Skull, Horns, and Skin of Himalayan Ibex (*Capra sibirica*) from the Thian Shan Mountains (A. 7. 4. 1902. 1); Skins of Wild Camel (*Camelus bactrianus*), and Saira Sheep (*Ovis sairensis*) (A. 22. 6. 1902. 1 and 2): collected and presented by St. George Littledale, Esq.

Two Squirrels (*Sciurus vulgaris*) ♂, ♀ (A. 16. 5. 1902. 1); two Water Shrews (*Crossopus jodiens*) ♂, ♀ (A. 27. 5. 1902. 1); three Dormice (*Myoxus acellanarius*) (A. 28. 5. 1902. 1): Fox (*Canis vulpes*) ♀ imm. from Folkingham, Norfolk (A. 30. 5. 1902. 1); Pine Marten (*Mustela martes*) ♂, from Northumberland (A. 31. 5. 1902. 1); purchased.

Skin of Squirrel (*indet.*) from British Amatongaland (A. 9. 6. 1902. 1): presented by W. Spencer Walton, Esq., Durban, Natal.

Stoat (*Mustela erminea*) ♀ from Bromborough Hall Estate (A. 17. 6. 1902. 1): collected, by kind permission of Sir W. B. Forwood, by the Museum Taxidermist.

Five Stoats (*Mustela erminea*) 2 ♂ and 3 ♀, from Knowsley, near Prescott (A. 18. 6. 1902. 1 and A. 20. 6. 1902. 1 and A. 6. 8. 1902. 1); purchased.

Bat (*Pipistrellus pipistrellus*) ♀ from Kirk Andreas, Isle of Man (A. 19. 6. 1902. 1); Whiskered Bat (*Myotis mystacinus*) ♂, from Crowden, Woodhead, Cheshire (A. 14. 7. 1902. 1): collected and presented by Mr. T. A. Coward, Bowden, Cheshire.

Three Bats (*Vesperugo noctula*) ♀ ♀ ♀, from Knowsley Hall (A. 21. 6. 1902. 1): Polecat (*Mustela putorius*) ♂, from Aberystwyth (A. 5. 7. 1902. 1): purchased.

Number of Mammalian Bones and Teeth (*indet.*) from the "Blue Clay," Leasowe (A. 7. 7. 1902. 1): collected and presented by Mr. Harold Kellet, Rake Lane, Liscard.

Seven Field Voles (*Arvicola agrestis*) 2 ♂, 2 ♀, 3 ♀ imm., and two Wood Mice (*Mus sylvaticus*), ♂, from Knowsley (A. 9. 7. 1902. 1 and 2, A. 6. 7. 1902. 1 and 2); purchased.

Body of a Domestic Dog (A. 28. 7. 1902. 1); presented by the Superintendent of the Home for Stray Dogs, Walton.

Bat (*indet.*) from Iquitos (A. 11. 8. 1902. 1): collected and presented by D. B. Adamson, Esq., H.B.M. Consul at Iquitos.

Two Moles (*Talpa europæa*) from Penyffordd, Flintshire, North Wales (A. 30. 8. 1902. 1); presented by Mr. T. Hibbert.

Three Squirrels (*Sciurus vulgaris*) ♂, ♀, ♂ juv. from Grange (A. 26. 9. 1902. 1); purchased.

Mongoose (*sp. indet.*) living, from Sierra Leone, West Africa (A. 29. 9. 1902. 1.); presented by Mr. A. Ridyard.

Two Squirrels (*Sciurus vulgaris*) ♂, ♀, from Suffolk (A. 3. 10. 1902. 1.); Rat (*Mus alexandrinus*) from Great Yarmouth (A. 4. 10. 1902. 1); Black Rat (*Mus rattus*) (A. 5. 10. 1902. 1); Two Moles (*Talpa europæa*) ♂, ♂, albino var., from Hawarden (A. 27. 10. 1902. 1); Water Shrew (*Crossopus fodiens*) ♂, from Suffolk (A. 29. 10. 1902. 1); purchased.

Collection of Fossil Bones of Pigmy Hippopotamus, from Madagascar, collected by Dr. Forsyth Major (A. 11. 12. 1902. 1); purchased.

Fox (*Canis vulpes*) ♀, from Billingham, Lincolnshire (A. 24. 12. 1902. 1); purchased.

Two Mammal Skins (*indet.*) from Patagonia (A. 31. 12. 1902. 1 and 2); presented by Dr. Moreno.

BOTANICAL DEPARTMENT.

The acquisitions in this department are as follows:—

Thirty-one squared samples of Australian Woods, *ex* Museum of Economic Forestry, Department of Forestry, Sydney (E. 20. 1. 1902. 1-31); presented by the Botanic Gardens, Sydney, New South Wales.

About seventy specimens of dried Plants, representing about forty species, from Bermuda (E. 17. 2. 1902. 1-44); collected by Mr. H. B. Small, and presented by Mr. Robert Powell.

About five hundred and thirty specimens of Plants, representing about one hundred and ninety species (E. 3. 5. 1902. 1-15; 9. 5. 1902. 1-16; 27. 5. 1902. 1-18; 5. 6. 1902. 1-29; 14. 6. 1902. 1-17; 19. 6. 1902. 1-13; 25. 6. 1902. 1-24; 16. 7. 1902. 1-17; 21. 8. 1902. 1-17; 11. 9. 1902. 1-17; 17. 9. 1902. 1-13; 25. 9. 1902. 1-22); collected for the Local Herbarium by the Assistant in the Lord Derby Museum.

A piece of Lace Bark from the West Indies (E. 12. 5. 1902. 1); presented by Mr. Robert Powell.

An abnormal flower of a Fuchsia (E. 21. 8. 1902. 18); grown and presented by Mr. T. N. Latham.

The Herbarium of the late Robert Brown, Botanical Referee, Liverpool Naturalists' Field Club, containing British—with a large proportion Local—and American plants, and consisting of about two thousand specimens, representing about twelve hundred species (E. 1. 9. 1902.); purchased.

Two fruits of the Orange, from Sierra Leone, Africa (E. 29. 9. 1902. 1); presented by Mr. A. Ridyard, Chief Engineer, s.s. "Niger."

MINERALOGICAL AND GEOLOGICAL DEPARTMENT..

The following are the acquisitions in this Department:—

Specimens of various Surface Deposits from Ireland, chiefly from Dog's Bay, Galway, along with a photograph of the Bay and Diatomaceous Deposit from Scotland (E. 20. 1. 1902. 1-11); presented by Mr. R. Welch.

About a dozen specimens of Rocks from the excavations for the new Liverpool Reservoir, near Prescot (F. 23. 1. 1902. 1-2; 27. 3. 1902. 1-3; 30. 5. 1902, 1-3; 23. 7. 1902. 1); collected for the Department by the Assistant in the Lord Derby Museum.

Two pieces of Sandstone from an excavation in front of the Picton Reading Room (F. 15. 2. 1902. 1); collected and presented by Mr. William S. Laverock.

Piece of Coal, showing "slickensides," from S. Wales (?) (F. 3. 3. 1902. 1); presented by Mr. J. Waugh, *per* Mr. F. P. Marrat.

About two dozen specimens of Minerals, chiefly Cassiterite and Orthoclase, from Perak, Federated Malay States (F. 14. 4. 1902. 1-4); presented by Mr. Cecil Wray.

Three pieces of stalactitic Iron Ore from the mines, Rhydymwyn, N. Wales (F. 9. 6. 1902. 1; 1. 9. 1902. 1); presented by Mr. F. Hoyer.

Piece of Coal, striated, from S. Wales (F. 15. 9. 1902. 1); presented by Mr. F. P. Marrat.

Piece of Rock from Majuba Hill, and another from the Rand, S. Africa (F. 15. 9. 1902. 2-3); presented by Mr. R. Powell.

THE AQUARIUM.

The Aquarium continues to be one of the chief attractions of the Museum; special interest being taken in the Mud Fishes (*Protopterus*) and the Walking Fishes (*Periophthalmus*).

The warm water tanks for the accommodation of West African Fishes are far from adequate, both the Mud Fishes and Walking Fishes suffering from the restricted space available for them, but steps have now been taken towards a much needed extension, whereby the facilities for keeping the various aquatic animals in good condition will be greatly improved.

Important donations of West African species continue to be made from time to time by Mr. A. Ridyard, Chief Engineer of the s.s. "Nyanga."

From year to year specimens of the Rainbow Trout (*Salmo irideus*) have been hatched and reared in the small Fish Hatchery in the Aquarium. In April last Mr. Clubb stripped two of the Rainbow Trout of the 1898 hatch, successfully fertilizing the eggs, which in due time hatched out, and some of the young are now upwards of five inches in length. As the fish from the various hatches increase in size, they become too large for the accommodation available, and a number of specimens of Rainbow Trout are presented each year to the Parks and Gardens Committee for distribution in the Park Lakes, and to local pisciculturists.

Captain Griffiths, of the Corporation Barge "Beta," has on several occasions brought living specimens of Marine Fishes for the tanks, and on the several occasions when the Assistant Curator has been out on the "Beta" trawling for marine specimens for the British collections, the opportunity has been taken of keeping suitable specimens alive for the Aquarium, all of which efforts have added greatly to the attractions of this section of the Museums.

The following species have been exhibited alive during the year, those with an asterisk being alive at the date of this report:—

Fresh Water Hydre (*Hydra viridis* and *H. fusca*): Sea-Anemones, The Crass* (*Tealia crassicornis*); * *Sagartia ornata*; Plumose Anemone (*Actinoloba dianthus*); Beadlet* (*Actinia equina*): Various Starfishes; Horse Leech* (*Hæmopsis vorax*); Fresh-Water Polyzoa* (*Plumatella repens*, *Lophopus crystallinus*): Edible Crab* (*Cancer pagurus*); Common Shore Crab* (*Carcinus maenas*); Hermit Crab (*Pagurus bernhardus*); Spider Crabs (*Stenorhynchus rostratus* and *Inachus dorsettensis*); Slender Spider Crab (*Stenorhynchus tenuirostris*); Cleanser Swimming Crab (*Portunus depurator*): Shrimp (*Crangon vulgaris*); Prawn (*Pandalus annulicornis*); * *Palaemonetes varians*; Centipede (*Scolopendra* sp.): Pecten (*P. opercularis*); Cockle (*Cardium aculeatum*); Water Snail (*Limnæus stagnalis*); Fresh Water Eel* (*Anguilla vulgaris*); Loch Leven Trout* (*Salmo levenensis*); Rainbow Trout* (*Salmo irideus*); Crucian Carp* (*C. carassius*); Common and Mirror Carp* (*Cyprinus carpio*); Three spined Stickleback* (*Gasterosteus aculeatus*); Minnow*; Bream*; Fresh Water Gudgeon* (*Gobio fluviatilis*); Tench* (*Tinca vulgaris*); Roach* (*Leuciscus rutilus*);

Pike* (*Esox lucius*); Perch* (*Perca fluviatilis*); North American Cat-fish (*Ameiurus catus*); Central American Fresh-water Fish* (*Iheros facetus*); Siamese Fighting Fish (*Betta pugnax*); Electric Cat-fish (*Malapterurus electricus*); African Mudfish* (*Protopterus annectens*); Walking Fish* (*Periophthalmus koelreuteri*); Sole* (*Solea vulgaris*); Spiked Dog-Fish (*Acanthias vulgaris*); Lesser Spotted Dog-fish (*Scyllium canicula*); Dragonet or Skulpin (*Callionymus lyra*); Spotted Dragonet (*Callionymus maculatus*); Plaice* (*Pleuronectes platessa* and *Pleuronectes microcephalus*); Bloch's Top Knot (*Scophthalmus uni-maculatus*); Common Frog* and Tadpoles (*Rana temporaria*); Green Tree Frog (*Hyla arborea*); Common Toad (*Bufo vulgaris*); Italian Toad* (*Bufo vulgaris*); Crested or Great Water Newt* (*Triton cristatus*); Common or Smooth Newt* (*Molge vulgaris*); Alligator Terrapin* (*Chelydra serpentina*); Terrapin (*Chrysemys rubriventis*); Gecko (*sp. indet.*); West African Tortoise (*sp. indet.*); Sternotherere* (*Sternotherus adonsonii*); Young Turtle (*sp. indet.*); Chameleons (*Chameleon basiliscus*, *C. tenuibronchus*); West African Crocodiles* (*Mecistops cataphractus* and *sp. indet.*); W. African Squirrel (*sp. indet.*); West African Mongoose* (*sp. indet.*).

SUMMARY OF ACQUISITIONS.

Zoological.

Porifera	...	...	1 Species	...	...	8 Specimens.
Cœlenterata	...	...	11	„	...	20 „
Echinodermata	...	...	9	„	...	30 „
Vermes	...	...	7	„	...	15 „
Polyzoa	...	...	10	„	...	20 „
Arthropoda (Crustacea)	...	...	22	„	...	53 „
Arthropoda (Tracheata)	...	...	31	„	...	70 „
Mollusca	...	...	45	„	...	150 „
Tunicata	...	...	6	„	...	30 „
Fishes	...	...	30	„	...	80 „
Amphibians	...	...	5	„	...	6 „
Reptiles	...	...	8	„	...	9 „
Birds	...	...	36	„	...	51 „
Mammals	...	...	50	„	...	133 „
			271			675

Botanical.

Plants 1,462 Species. 2,535 Specimens.

Geological and Mineralogical.

Rocks and Minerals... .. 55 Specimens.

B.—MAYER MUSEUM.**(a) GENERAL.**

In the Upper Gallery are being re-arranged illustrations of the history and handiwork of the various families of the Mongolian race. The balcony of the Main Hall, the Main Hall itself, and the ground floor of the Mayer Museum are all devoted to illustrations of the History, Art and Craft of the Caucasian Peoples.

During the past year, wall and other cases have been placed in the Main Hall, to house the extensive collection of Egyptian Antiquities removed from the Mayer basement, which has been arranged in chronological order, from the pre-dynastic to the Roman periods.

The basement is now exclusively devoted to Melanian Ethnology. Special attention is being devoted to the African collections. In regard to this department, the special thanks of the Committee are due to Sir Alfred Jones, and through his personal influence to the Members of the West African Section of the Chamber of Commerce, for the great interest they have shown in it, and the most generous offer they have made to assist in rendering it as complete a representation as possible of the Ethnology of West Africa, the region with which Liverpool is so intimately in relation. Within a short period the West African collection will have been transferred to their new location, when the Director hopes to be able to avail himself of their offer to supplement the existing deficiencies. Numerous objects from that region have been received, as in previous years, from Mr. A. Ridyard, Chief Engineer in the service of Messrs. Elder, Dempster & Co., who have, as for many years past, been so helpful to the Museum.

The painting and decorating of the walls and the laying of the basement with wood blocks in place of tiles, undertaken during the year, necessitated the closing to the public of the Mayer Museum for several weeks. The exchange of wood blocks for tiles has most beneficially reduced the noise from footsteps.

In accordance with the scheme of re-arrangement, all objects illustrating Local History and Archæology have been arranged in the first two rooms of the lower gallery of the Lord Derby Museum, and to it has been added the extensive collection of Grain Stones formed by the late Mr. Richard Bennett, and generously presented by his widow.

The Historic Society of Lancashire and Cheshire has, by a vote of its Council, placed on permanent loan its collection of Antiquities, many of which are of great local interest. These are also exhibited in the Liverpool Room of the Local Area Collection.

The extensive series of objects illustrative of the Art work of the Maoris of New Zealand, which had been deposited on exhibition for some time through the kindness of Major-General H. G. Robley, has now been returned to him.

Sir Richard Temple presented through the British Museum to the Mayer Museum a selection of objects from the Nicobar Islands, the ethnography of which was not previously represented in the collection.

Photographs and enlargements for the Ethnological collection still continues to be taken in the Department. Among others, photographs of Thakur Bhowani Singh, of Karanli, Rajputana, were taken from life. A set has, as usual, been sent to the British Museum. Photographs of ethnographical objects and natural history subjects have been sent to the undermentioned investigators to assist in their studies, or to illustrate works on which they may be engaged:—

Gloves and shoes of King Henry VIth, to Mr. W. B. Redfern, for his work on "Historic Gloves and Ancient Shoes"; to Dr. Meyer (Dresden), and Professor Lorenz (Vienna).

Besides these a large number of lantern slides, to illustrate the Monday evening lectures by the Staff, has also been prepared in the Department.

(b) LOANS AND DEPOSITS.

Two manuscripts (1) "Treatise on Moral Philosophy," by St. Thomas Aquinas, German, 15th century (^M_{12.037}), and (2) Portion of the History of Rome, by Eutropius, Italian, A.D. 1528 (^M_{12.038}), have been lent for the use of palaeographical students, to University College, Liverpool.

The sheets of Hieratic Papyri, relating to the trial of tomb robbers in the XXth dynasty, lent for study to Percy E. Newberry, Esq., at the London University, have been returned. The Mayer Museum sheets formed a portion only of the story, the main portion belonging to Lord Amherst, of Hackney, who has now had the entire papyrus published, under the editorship of Mr. Newberry.

(c) EXCHANGES.

No exchanges have been effected during this year.

(d) ACQUISITIONS.

(1.) GENERAL.

A collection of ancient and modern handstones (17.7.1902) for grinding grain, formed by the late Mr. Richard Bennett, Liverpool, in connection with the production of the "History of Corn Milling," by himself and Mr. John Elton: presented by Mrs. Bennett. The collection contains examples of all forms of saddlestones, mortars and querns, and from almost all localities, as follows:—Saddlestones and mullers (prehistoric), from Gwerwen, Anglesey; mortars (early British and Romano-British), from Anglesey; mortar and pounder, from British Hut Mounds at Bryngwran, near Tycroes, Anglesey, 1898; Scotch "Knockin' Stane" and pounder, Stromness, 1897; Bullan stone (prehistoric), for pounding grain, discovered beneath a bed of clay in excavations during the laying out of Sefton Park, Liverpool; Saddlestone, Arauco, Chili, 1898 (modern Indian); Elmina and Accra, West Africa (modern); mullers (prehistoric), from Hissarlik, Troy; metata and muller, from Durango, Mexico; three piccin stones, West Africa (modern); Roman mortar, found at the Roman station at Warrington, 1899, by Mr. T. May; mortar and

pounder (ancient Indian), from Chubut, Patagonia, 1898; mortar and pounder, Chili; Roman earthenware mortars, found in excavations in Tokenhouse Yard, London.

Pre-historic Pounders (British).—Palæolithic, from Wandsworth, Barnes, Stoke Newington and Warren Hill; Neolithic, from Warren Hill, Northfleet, Dover, Culbin, Eastbourne, Icklingham, Mildenhall, Antrim, and the Pile Dwellings, Thames Mortlake.

Stone pounders and mullers, from Hayti, India, Australia, New Guinea, West Indies and North America.

Querns:—Upper and lower stones, from Stromness (1897), Iona (1897), and Aberdeen; upper and lower stone, from Fair Isle, Shetlands, 1898; quern, found on the island of Innishambo, Lough Corrib, Galway, in 1836; querns (modern Irish), from Drumkeeran and Lugneskeehan, co. Leitrim; Irish pot-quern (Foster Collection); Romano-British quern, Anglesey; lower stones of Romano-British querns, Anglesey; Norwegian quern, mounted on grinding table, from a farm near Molde, near Christiansund, 1896; upper stone of a quern handmill, dug up in the garden of Anne Hathaway's cottage, Stratford-on-Avon; quern (modern), Plain of Sharon, Palestine, collected 1899; model of a woman working quern in the Holy Land at present day; model of a modern variety of quern in use in the Holy Land; quern (modern), from Egypt, 1899; quern (modern), Tangiers; quern (modern), India, with tray for containing the meal, 1899; quern (modern), Hong-Kong, 1899.

Mill pick, for grooving stones by hand, and plan of the grooves cut in wood, such as were used at the Aughton Windmill, Lancashire.

(2.) CERAMICS.

No Ceramic acquisitions have been made during the present year.

(3.) ETHNOGRAPHY.

PRE-HISTORIC:—

Cast of a Neolithic Stone Celt (12. 11. 1902. 1), found at Warrington; presented by Mr. R. D. Darbishire.

MELANIAN RACE.

Africa.—West and South-west Africa:—

List of specimens collected and presented by Mr. A. Ridyard, Chief Engineer in the service of Messrs. Elder, Dempster & Co.:—

Grass cap (1. 4. 1902, 3), Bumba, Mandingo country.

Fly-brush (7. 7. 1902. 1), Gambisarrah, River Gambia.

From Sierra Leone:—

Sifter (1. 4. 1902. 1); bamboo plaited hat (7. 7. 1902. 13).

From Liberia:—

Pair of rattles (7. 7. 1902. 2), Saas Town; carved enema (7. 7. 1902. 1), Cape Palmas; kroo-boy's rattle (29. 9. 1902. 1).

From the Ivory Coast:—

Juju (Bee Sa) (1. 4. 1902. 2).

From the Gold Coast:—

Reed and healds for a country loom (7. 7. 1902. 4), Jellah coffee; seven brass weights (7. 7. 1902. 6-12), used by the goldsmiths at Kumassi for weighing out gold. The weights are of various forms, as follows:—A gatling gun, native stool, human figure carrying a load on the back, a bird eating a snake, two shells, a crab, and a crab's claw.

Plaited reed hat (1. 4. 1902. 4), Little Popo.

Earthenware wine vessel (7. 7. 1902. 14). The neck is in form of a human head, wearing a necklace, used by the late King of Anamaboe; presented by King Amoono V. of Anamaboe, *per* Mr. A. Ridyard.

The following specimens have been presented *per* Mr. A. Ridyard:

Model canoe (1. 4. 1902. 5), Drewin, Ivory Coast; presented by Mr. L. W. Napton.

Earthenware water cooler (1. 4. 1902. 6), from Bolamo, and a Juju (1. 4. 1902. 7), from Bolamo; presented by Mr. W. E. Innis.

Earthenware water cooler (29. 9. 1902. 2), from Sin, Foundone, Senegambia; presented by Mr. W. E. Johnson, Bathurst.

Knife and sheath of leather (29. 9. 1902. 3), from Sassandra, Ivory Coast; presented by Mr. J. W. Lawless, Sassandra.

Appliances used in the preparation of food stuffs in West Africa, collected by Mr. A. Ridyard for the late Mr. Richard Bennett, and presented by Mrs. Richard Bennett (17. 7. 1902), as follows:—Basket sieve, Gaboon; canoe-shaped wooden bowl, Batanga, Cameroons; wooden platter, with handle, Gaboon; wooden bowl or mortar, with handle, Gaboon: three piccin stones, West Africa: basket sieve, tray, and wooden mortar and wooden mortar and pounder, Sierra Leone; wooden mortar and pounder, Gaboon; wooden mortar and pounder, Boma, Congo River; mortar and pounders, from Sierra Leone, Gaboon, Congo Francais, and Boma, River Congo, 1898.

South Africa:—

Head-dress of ostrich feathers (3. 2. 1902. 205), worn by the Matabele Chief, "Gambo," who fell in the battle of Thabasmanha, June, 1896; purchased.

Stone scraper (3. 6. 1902. 1), dug up, along with an axe and arrow-head, in Swaziland: presented by Mr. W. Spencer Walton, Durban.

Melanesia:—

Series of photographs (3. 2. 1902. 1-205) of natives of the Pacific Islands, taken by Dr. O. Finsch; purchased.

Pestle and mortars of ebony (17. 7. 1902), from New Guinea, from the collection of the late Mr. Richard Bennett: presented by Mrs. Bennett.

An important collection of Ethnography (3. 6. 1902. 1-67), from the Nicobar Islands, presented by Sir Richard Temple through C. H. Read, Esq., Keeper of British and Mediaeval Antiquities, British Museum, contains examples of the following specimens:—Model canoe, with outrigger and sails: double canoe: canoe, with leaf and cloth sails: canoe, without outrigger: palm-leaf petticoats: palm-leaf fan: coco-nut rasps: wooden figures of animals: wooden press:

palm-leaf mat; bamboo tubes; fish-traps; wooden baler; model huts; coco-nut brooms; hat of plaited fibre, covered with cloth; baskets of various forms and sizes; cloth head-bands; wooden stools; wooden bowls; wooden head-rests; palm-leaf boxes and vessels; coco-nut vessels, balers, bottles, musical instruments, &c.; palm-leaf head-bands.

MONGOLIAN RACE:—

America.—South:—

Three head-dresses (25. 11. 1902. 1-3) of cane and parrot feathers; case of poisoned arrows and bag (25. 11. 1902. 4); cotton garment (25. 11. 1902. 5), from the Napo and Iquitos, River Amazon; presented by Miss Jane R. Thornely.

Figure of a deity (?) (6. 5. 1902. 1), Aztec (?); presented by Mr. F. Alcock.

Photographs (30. 6. 1902. 1-4) of Alaskan drill bows, &c.; presented by Mr. R. D. Darbishire.

Malaysia:—

Knife in wooded sheath (17. 2. 1902. 1); kris (17. 2. 1902. 2); kris (17. 2. 1902. 4); knife (17. 2. 1902. 3), with carved horn handle; purchased.

Painted and carved figure of wood (1. 9. 1902. 1); purchased.

Part of a set of wooden painted figures, representing native Indian castes (15. 9. 1902. 1-18); presented by Mr. W. S. Longriggs, through Mrs. A. M. Sawyer.

Two Roman coins (15. 9. 1902. 19-20), found at Jubalpoore, Central India; collected and presented by Sergeant W. Cromey, South Lancashire Regiment.

Two pewter coins (26. 9. 1902. 1-2), = 400 to 1 dollar, struck at Trengganu; painted clay whistle (26. 9. 1902. 3), from Patani, Malay Peninsula; collected and presented by Mr. Herbert C. Robinson.

Rice kibbler (17. 7. 1902), Burmah, 1899; from the collection of the late Mr. Richard Bennett, and presented by Mrs. Bennett.

CAUCASIAN RACE.

Egypt:—

Copy of the Papyrus of 'Ani' (7. 7. 1902. 15), with transliteration of the hieroglyphics, &c., by F. Ll. Griffiths; presented by Mr. T. Gibson.

A selection of Egyptian Antiquities (16. 9. 1902. 1-57), from the excavations at the Royal and other Tombs at Abydos, were received from the Committee of the Egypt Exploration Fund, as follows:—
Earthenware pots; spindle whorl; slate palette; pieces of a fireplace; axe-head; model shell and mortar in alabaster, inscribed with the name of Tahutmes III.; three metal arrowheads; inscribed limestone, bearing the name of 'Uah-ab-ra-Apries'; string of twenty-five amulets, from the tomb of Zedher; ushabti; beads; paint rubber; two earthenware moulds; flint knives, scrapers, flakes, and parts of knives, &c.

The following casts (10. 4. 1902. 1-4) of Egyptian Antiquities, from original in the British Museum, were obtained by purchase:—

Statuette of 'Betmes,' a high functionary of the IVth Dynasty; statuette of 'Amen-em-ha,' a functionary of the XIIth Dynasty; upper part of an Egyptian Monarch, late period; head of the sarcophagus of Sebaksi.

Egyptian bronze pounder (17. 7. 1902), from the collection of the late Mr. R. Bennett; presented by Mrs. Bennett.

Polynesia:—

Stone pounder (17. 7. 1902), Sandwich Islands, from the collection of the late Mr. Richard Bennett, and presented by Mrs. Bennett.

Europe:—

Writ for debt (29. 4. 1902. 1) issued at Dublin, February; 1836; presented by Mr. W. H. Quilliam.

Set of Mint proof English coins of Edward VII. (29. 9. 1902), viz., £5, £2, £1, half-sovereign, 5s., 4s., 2s., 1s., 6d., and 3d.; purchased.

SUMMARY OF ACQUISITIONS.

Ethnography and Photographs 568

HENRY O. FORBES,

DIRECTOR OF MUSEUMS.





"A CORNISH IDYLL"

By Walter Langley, R.I.

*Purchased from the Autumn Exhibition, 1902, and presented to the Permanent
Collection by Mr. Alderman T. W. OAKSHOTT, J.P.*

WALKER ART GALLERY.

Since the last Annual Report, the work of the Gallery has proceeded steadily and satisfactorily. No Spring Exhibition was held, and the rooms being thus left available, the opportunity was taken to re-arrange the Permanent Collection to greater advantage. The extended space rendered it possible to allow a margin of wall round each picture, the artistic merit of each work being thus made more evident and the appearance of the Collection as a whole greatly enhanced. This re-arrangement shows the necessity for additional rooms, in order that the City Art Treasures may be adequately displayed.

In addition to this, the rooms have been requisitioned for the display of the Decorations, by C. W. Furse, for the Pendentives of the Town Hall; the models and designs for the Liverpool Queen Victoria Memorial; the Architectural Society's Dinner; the exhibition of the original drawings, by famous European painters, for a new Illustrated Bible by the proprietors of the "Illustrated London News"; exhibition of Designs, &c., in connection with the proposed Cathedral for Liverpool; and Mr. Thomas Pegram's loan collection of Oil Paintings and Water Colours. This collection, containing very beautiful examples of Modern Art, has been accepted on temporary loan by the Committee, and the opinion has been expressed that other private owners of valuable pictures would add to the attractions of the Gallery and the furtherance of Art knowledge, if, when opportunity served, they would allow their Art treasures to be displayed in the Gallery in any vacant rooms that may be available.

In the List of Donations will be found a further contribution of Water-Colour Drawings by John Varley and George Barret, presented by James Smith, Esq., of Blundellsands, as the nucleus of a collection of Water Colours from the time of the earliest examples. The Water-Colour Section of the City Collection is very meagre in

specimens at present, and it is to be hoped that a complete collection, to be arranged in chronological order, may at no distant date be acquired either by donations, bequests or purchases.

The permanent Collection has continued to be an object of great interest, not only to visitors, but in Art circles in the United Kingdom and abroad.

Numerous privileges for making reproductions have been granted, and the demand for these privileges still continues.

In publications, such as the "Hundred Best Pictures," "The Nation's Pictures," and other works of similar class, the works from the Liverpool Collection are well represented, and hold their own with examples taken from the most famous collections in the world.

It will be seen from the return of attendances that about 11,000 pupils of Board and other schools visited the Autumn Exhibition by invitation of the Committee. Some of the teachers encourage the scholars to write little essays on the pictures. These are often very intelligent and interesting, and the practice is well worth cultivating, not only as calling forth the critical faculties, but as a means of impressing the works upon the memory of the young people. The Curator has noticed that lately small classes of scholars have been brought in charge of teachers to inspect the Permanent Collection, which seems to be an admirable means of making them familiar with the works of the artists of the country. It is to be feared that insufficient attention has been paid to Art in the education of the people generally, and it is found that an enormous number have no knowledge whatever of the merits or otherwise of a work of Art; and having no knowledge, take no interest in the productions of even great artists. It seems, therefore, very desirable that young people should be taught early to cultivate the faculty and taste for Art, and it should be made part of the curriculum in all schools that a knowledge of the history and practice of Art should be taught, and thus act as a refining and intellectual influence upon the nation.

CHARLES DYALL,

CURATOR.



“FOREST OAKS—FONTAINEBLEAU”

By Sir Ernest A. Waterlow, R.A., P.R.W.S.

Purchased from the Autumn Exhibition, 1902.



VISITORS TO THE GALLERY.

During the year the Gallery was open 310 days, excluding Sundays. The number of visitors was 435,450, or a daily average of 1,416. This total includes 59,590 visitors to the Autumn Exhibition, besides 10,909 pupils of schools of various denominations, who were admitted free. In addition, the total attendance on Sundays was 13,343, being an average of 417.

RESULTS OF THE AUTUMN EXHIBITION OF PICTURES.

	1901.			1902.		
		£	s. d.		£	s. d.
Number of Works of Art Exhibited	1,703	—		1,598	—	
Number of Pictures sold	239	—		169	—	
Amount of sales at Catalogue prices	—	7,669	17 0	—	5,273	1 6
Season Tickets sold	3,268	569	10 6	2,853	492	2 6
Admissions at One Shilling	28,396	1,419	16 0	24,248	1,212	8 0
„ Sixpence	20,703	517	11 6	17,366	434	3 0
„ Threepence	12,717	158	19 3	15,223	190	5 9
Catalogues sold.....	19,487	515	9 0	18,827	483	15 6
Commission on sales	—	257	12 10	—	167	14 5
Miscellaneous Receipts	—	625	12 7	—	469	14 10
Total Receipts, exclusive of sales.....	—	3,808	0 10	—	3,282	6 7

PICTURES LENT.

The following Works have been loaned to Exhibitions, &c., as under :—

TITLE.	ARTIST.	LENT TO.
"Ecce Agnus Dei"	A. Chevallier Tayler....	Whitechapel Art Gallery, London.
"Evensong"	Mark Antony	Wolverhampton Art and Industrial Exhibition.
"Kenilworth"	J. Constable, R.A.	" " "
"An Idyll"	M. Greiffenhagen	" " "
"A Pilgrimage"	A. Legros.....	" " "
"The Martyr of the Solway".....	Sir J. E. Millais, Bart., P.R.A.	Aberdeen Artists' Society.
"The Evening of the Battle of Waterloo"	Ernest Crofts, R.A.....	Cork International Exhibition
"Jeanne d'Arc"	Harold Rathbone	" " "
"A Burgomaster"	Flemish School	Bruges Art Exhibition.
"Triptych" (The Crucifixion)	Roger Van der Weyden	" "
"And when did you last see your father?"	W. F. Yeames, R.A. ...	Preston Guild Exhibition.
"Haymakers resting"	F. A. Delobbe	" "
"Love's Baubles"	Byam Shaw.....	" "
"Napoleon crossing the St. Bernard" ...	Paul Delaroche	Nottingham Corporation.
"In time of War"	T. Faed, R.A.	Aberdeen Artists' Society.
"Sir Hugh Owen"	W. Davies	Liverpool Exhibition of Welsh Industries.
"The young Augustus"	J. Gibson, R.A.	" " "
"Cupid in Disguise"	"	" " "
"Flora"	"	" " "
"The Graces"	"	" " "
"Venus"	"	" " "
"The Ancient Woodman"	J. Milo Griffith	" " "
"Music and Dancing"	"	" " "
"Study of a head"	W. Goscombe John, A.R.A.	" " "
"Portrait of John Gibson, R.A." ..	John Partridge	" " "
"Eventide"	H. Von Herkomer, R.A.	Whitechapel Art Gallery, London.
"An Idyll"	M. Greiffenhagen	Glasgow Institute of Fine Arts
"The Punishment of Luxury"	G. Segantini	" " "
"Kenilworth"	J. Constable, R.A.	Kidderminster Schools of Art
"Off to the Fishing Grounds"	Stanhope A. Forbes, A.R.A.	Rochdale Corporation.
"Nearing the Needles"	Henry Moore, R.A.....	The Royal Academy.
"One of the Family"	F. G. Cotman	Burnley Corporation.

REPRODUCTIONS.

The following privileges for the reproduction of Works in the Permanent Collection have been granted during the year. In no case is the privilege granted an exclusive one, the Committee reserving to themselves the right to afford facilities to other applicants at their discretion :—

APPLICANT.	PICTURE.	ARTIST.
London Electrottype Agency	"The Goose Girl"	Val C. Prinsep, R.A.
Hartley Aspden	"Ruth and Naomi"	P. H. Calderon, R.A.
A. G. Temple	"Sponsa de Libano"	Sir E. Burne-Jones, Bart.
"	"Venus and Anchises"	Sir W. B. Richmond, R.A.
"	"Awaiting an Audience"	Prof. Willem Geets.
"	"A Summer Night"	Albert Moore.
"	"Napoleon crossing the St. Bernard"	Paul Delaroche.
"	"A Select Committee"	H. Stacy Marks, R.A.
"	"The Shepherd of Jerusalem"	P. R. Morris, A.R.A.
"	"Fast falls the Eventide"	B. W. Leader, R.A.
"	"Wintry March"	W. L. Picknell.
"	"Nature's Mirror"	Peter Ghent.
"	"Asking the way"	Sir J. Gilbert, R.A.
"	"Top of the Tide"	Walter Bayes.
"	"The Martyr of the Solway"	Sir J.E. Millais, Bart., P.R.A.
Rich. Bong	"Samson"	Solomon J. Solomon, A.R.A.
Rev. W. B. Fitzgerald ..	"Dante's Dream"	D. G. Rossetti.
C. Arthur Pearson, Ltd ..	"The Goose Girl"	Val C. Prinsep, R.A.
"	"Psyche in the Temple of Love" ..	Sir E.J. Poynter, Bart., P.R.A.
"	"Friday"	W. Dendy Sadler.
"	"Venus and Anchises"	Sir W. B. Richmond, R.A.
D. Croal Thomson	"Dante's Dream"	D. G. Rossetti.
Miss H. Twycross	"	"
Cassell & Co., Ltd.	"The Best of Husbands"	Arthur Stocks, R.I.
Charles Letts & Co.	"And when did you last see your Father?" ..	W. F. Yeames, R.A.
C. W. Faulkner & Co., Ltd.	"Maiwand—Saving the Guns" ..	R. Caton Woodville.
Edward Arnold	"Dante and Beatrice"	Henry Holiday.
"	"The road to Camelot"	G. H. Boughton, R.A.
Cassell & Co., Ltd.	"Ruth and Naomi"	P. H. Calderon, R.A.
"	"The Martyr of the Solway"	Sir J.E. Millais, Bart., P.R.A.
Fred Huth	"Dante and Beatrice"	Henry Holiday.
Gladwell & Co.	"And when did you last see your Father?" ..	W. F. Yeames, R.A.
Rich. Bong	"Friday"	W. Dendy Sadler.
Cassell & Co., Ltd.	"The Evening of the Battle of Waterloo" ..	Ernest Crofts, R.A.
"	"Launching the Lifeboat"	Henry Moore, R.A.
"	"Table d'Hôte at a Dogs' home" ..	J. C. Dollman.
Clement Shorter	"And when did you last see your Father?" ..	W. F. Yeames, R.A.
"	"The Ancestor on the Tapestry" ..	J. Haynes Williams.
"	"The Evening of the Battle of Waterloo" ..	Ernest Crofts, R.A.
"	"Maiwand—Saving the Guns" ..	R. Caton Woodville.
S. Hildesheimer & Co. Ltd.,	"And when did you last see your Father?" ..	W. F. Yeames, R.A.

APPLICANT.	PICTURE.	ARTIST.
Joseph Malins	"Samson"	Solomon J. Solomon, A.R.A.
George G. Napier.....	"The Prisoner of Chillon"	W. Daniels.
Clement Shorter	"Faithful unto Death"	Sir E. J. Poynter, Bart., P.R.A.
"	"Triumph of the Innocents"	W. Holman Hunt.
"	"Elijah in the Wilderness"	Lord Leighton, P.R.A.
Joseph Bibby	"Napoleon crossing the St. Bernard"	Paul Delaroche.
"	"Baalbec—Ruins of the Temple of the Sun"	D. Roberts & Co.
"	"Dante and Beatrice"	Henry Holiday.
W. Collins, Sons & Co., Ltd.	"The Prisoner of Chillon"	W. Daniels.
"	"Finishing Touches"	W. Brint Turner.
"	"Don't 'ee tipty toe"	John Morgan.
"	"The Hunted Slaves"	R. Ansdell, R.A.
"	"Faithful unto Death"	Sir E. J. Poynter, Bart., P.R.A.
"	"The Select Committee"	H. Stacy Marks, R.A.
"	"And when did you last see your Father?"	W. F. Yeames, R.A.
"	"Ophelia"	Henrietta Rae.
"	"Richard II. resigning the Crown to Bolingbroke"	Sir J. Gilbert, R.A.
"	"The White Lady of Nurem- berg"	Sir Wyke Bayliss, P.R.B.A.
"	"Cæsar and Calpurnia"	W. H. Sullivan.
"	"Nature's Cathedral Aisle"	J. T. Watts.
"	"Ariel"	Robert Fowler.
"	"In time of War"	T. Faed, R.A.
"	"The Stowaway"	A. Dixon.
"	"Lady Macbeth" (Ideal portrait)	T. F. Dicksee
"	"Elaine"	Mrs. S. Anderson.
"	"Grey Venice"	C. Napier Hemy, A.R.A.
Berlin Photographic Co...	"Dante and Beatrice"	Henry Holiday.
Isaac Pitman & Sons	"And when did you last see your Father?"	W. F. Yeames, R.A.
Henry Williams	"Dante and Beatrice"	Henry Holiday.
The Editor, "Strand Magazine"	"Faithful unto Death"	Sir E. J. Poynter, Bart., P.R.A.
"	"Psyche in the Temple of Love"	John Finnie.
Cassell & Co., Ltd.	"Snowdon, from Capel Curig"	F. Goodall, R.A.
"	"A new light in the Harem"	J. C. Dollman.
"	"Table d'Hôte at a dogs' home"	W. Holman Hunt.
"	"The triumph of the Innocents"	C. Napier Hemy, A.R.A.
"	"How we caught the Pilchards"	F. G. Cotman.
"	"One of the Family"	Sir E. J. Poynter, Bart., P.R.A.
"	"Psyche in the Temple of Love"	"
"	"Faithful unto Death"	Fred Morgan.
"	"The Pedlar"	Arthur Stocks.
"	"Motherless"	P. H. Calderon, R.A.
Bemrose & Sons, Ltd.....	"Ruth and Naomi"	A. Legros.
The Editor, "Studio"	"The Pilgrimage"	D. G. Rossetti.
Swan, Sonnenschein & Co.	"Dante's Dream"	Sir W. B. Richmond, R.A.
Andre & Sleigh, Ltd.	"Venus and Anchises"	Sir J. Gilbert, R.A.
Cassell & Co., Ltd.	"The Convocation of Clergy"	Solomon J. Solomon, A.R.A.
G. Wolff.....	"Samson"	"
Carl Aller	"	"
The Editor, "London Magazine"	"Faithful unto Death"	Sir E. J. Poynter, Bart., P.R.A.

APPLICANT.	PICTURE.	ARTIST.
The Editor "Critic" New York	"The Punishment of Luxury"	G. Segantini.
Eyre & Spottiswoode	"A Reverie"	F. Dicksee, R.A.
The Editor, "Windsor Magazine."	"Richard II resigning the Crown to Bolingbroke"	Sir J. Gilbert, R.A.
"	"Coriolanus taking leave of his wife and children"	Unknown.
"	"Juliet"	G. Fontana.
"	"Mark Antony"	Unknown.
"	"Florizel and Perdita"	J. Durham, R.A.
"	"Ophelia"	Henrietta Rae.
"	"Ariel"	Robert Fowler.
"	"Ariel"	J. A. Fitzgerald.
"	"O Mistress mine"	E. A. Abbey, R.A.
Clement Shorter	"Elijah in the Wilderness" ..	Lord Leighton, P.R.A.
"	"Ariel"	Robert Fowler.
"	"The Ante-chamber at White- hall"	E. M. Ward, R.A.
H. Virtue & Co.	"Ophelia"	Henrietta Rae.
Rev. J. Day Thompson ...	"Elijah in the Wilderness" ...	Lord Leighton, P.R.A.
"	"And when did you last see your Father?"	W. F. Yeames, R.A.
"	"The Triumph of the Innocents"	W. Holman Hunt.
"	"In time of War"	T. Faed, R.A.
"	"Faithful unto Death"	Sir E. J. Poynter, Bart., P.R.A.
"	"Ruth and Naomi"	P. H. Calderon, R.A.
"	"Friday"	W. Dendy Sadler.
"	"One of the Family"	F. G. Cotman.
"	"Lorenzo and Isabella"	Sir J.E. Millais, Bart., P.R.A.
"	"The road to Camelot"	P. H. Calderon, R.A.
"	"The Martyr of the Solway" ..	Sir J.E. Millais, Bart., P.R.A.
"	"Ophelia"	Henrietta Rae.
McCorquodale & Co., Ltd.	"Friday"	W. Dendy Sadler.
"	"Eventide"	H. von Herkomer, R.A.
Eyre & Spottiswoode	"A Summer Night"	Albert Moore.
"	"Lorenzo and Isabella"	Sir J.E. Millais, Bart., P.R.A.
"	"Love's Baubles"	Byam Shaw.
"	"Landscape and Sheep"	Birket Foster.
"	"From Green to Gold"	Yeend King.
"	"Rival Grandfathers"	John R. Reid.
"	"A Street in Brittany"	Stanhope A. Forbes, A.R.A.
"	"Landscape" 448	John Constable, R.A.
"	"" 449	"
The Editor, "Windsor Magazine."	"Samson"	Solomon J. Solomon, A.R.A.
Rev. Jas. Johnston	"The founder of English Astronomy"	Eyre Crowe, A.R.A.
The Art Union of London	"Rival Grandfathers"	John R. Reid.
Geo. W. Jones	"Don't 'ee tipty toe"	John Morgan.
"	"Psyche in the Temple of Love"	Sir E. J. Poynter, Bart., P.R.A.
"	"And when did you last see your Father?"	W. F. Yeames, R.A.
"	"Friday"	W. Dendy Sadler.
"	"Venus and Anchises"	Sir W. B. Richmond, R.A.
"	"The Goose Girl"	Val C. Prinsep, R.A.

ADDITIONS to the PERMANENT COLLECTION.

The undermentioned Works of Art have been added to the Permanent Collection during the year, viz.:—

By Donations:—

"An Old Castle," by John Varley: "View in Wales," by John Varley: and "Richmond Park," by George Barret; three water colour drawings, presented by James Smith, Esq., of Blundellsands, towards the establishment of a Historical Collection of Water Colours. "The Lady in Comus" (oil), by Joseph Wright, of Derby: presented by Mrs. Rathbone, on behalf of her husband, the late William Rathbone, LL.D. Six Proof Engravings, presented by the Proprietors of the "Illustrated London News," viz., "Queen Victoria," after J. J. Benjamin Constant: "King Edward VII.," and "Queen Alexandra," after S. Begg: "Helping Grandad," after Fred Morgan: "Red Riding Hood," after G. Hillyard Swinstead: and "Many Happy Returns," after T. C. Garland. "Early Study of Sheep" (water colour drawing), executed by the late T. Sidney Cooper, R.A., at the age of 14: presented by John Dean, Esq. "A Cornish Idyll" (oil), by Walter Langley, R.I.: presented by Alderman T. W. Oakshott, J.P. (purchased by him from the Autumn Exhibition of 1902).

By Purchase:—

"Ruth and Naomi" (marble group), by the late Warrington Wood.

By Purchase from the Autumn Exhibition of 1902:—

"Forest Oaks, Fontainebleau" (oil), by Sir Ernest A. Waterlow, R.A., P.R.W.S.: "Gibraltar, from Algeiras" (oil), by Alfred East, A.R.A.: "Holland" (oil), by Moffat P. Lindner: "A Midsummer Day" (oil), by Thomas Huson, R.I.: "Mysteriarch" (plaster bust), by George J. Frampton, R.A.: and "Showery Weather in Little Langdale" (water colour drawing), by Isaac Cooke, R.C.A.: purchased under the terms of the Lord Derby Bequest.



"MYSTERIARCH"

By George J. Frampton, R.A.

Purchased from the Autumn Exhibition, 1902.



TABULATED STATEMENT OF ADMISSIONS, PICTURES SOLD, &c., DURING 32 YEARS, FROM 1871 TO 1902.

Year.	ADMISSIONS.			THREEPENCE.			SEASON TICKETS.			CATALOGUES SOLD.			COMMISSION ON PICTURES SOLD.			MISCELLANEOUS RECEIPTS.			TOTAL RECEIPTS.			PICTURES SOLD.			
	Sixpence.			THREEPENCE.			SEASON TICKETS.			CATALOGUES SOLD.			COMMISSION ON PICTURES SOLD.			MISCELLANEOUS RECEIPTS.			TOTAL RECEIPTS.			PICTURES SOLD.			
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	No.	£	s.	d.
1871	720	16	0	207	14	6	62	2	0	165	10	0	320	18	6	46	4	4	1,523	5	4	235	6,395	2	6
1872	601	5	0	48	2	6	59	6	6	168	0	6	312	6	0	3	18	3	1,368	8	3	242	6,231	4	6
1873	665	18	0	229	10	3	96	8	6	199	17	6	371	17	0	2	10	0	1,566	1	3	271	7,402	17	6
1874	834	16	0	241	13	3	151	16	6	247	0	6	479	0	3	2	7	0	1,976	13	6	337	9,514	13	0
1875	972	13	0	237	14	0	210	7	0	279	14	3	617	3	0	11	9	2	2,406	17	11	345	12,299	18	6
1876	1,118	0	0	232	7	6	221	1	0	301	12	0	440	15	3	9	10	7	2,409	15	10	255	8,867	10	0
1877	1,928	12	0	419	3	3	443	14	0	454	10	1	537	11	2	18	4	2	3,801	14	8	301	10,963	11	0
1878	1,964	17	0	423	5	0	528	14	6	562	8	6	237	13	0	142	0	4	4,189	7	10	235	6,225	14	0
1879	1,516	12	0	378	11	9	566	7	6	504	9	3	364	16	0	7	17	0	3,550	15	0	267	9,159	15	0
1880	1,449	11	0	430	19	6	499	16	0	509	7	3	544	3	3	10	17	7	3,727	19	1	271	11,753	7	6
1881	1,434	15	0	376	4	6	475	14	0	468	19	9	523	7	6	15	9	6	3,583	14	9	315	12,210	11	0
1882	1,430	3	0	332	16	0	476	1	0	472	14	6	362	8	9	23	1	11	3,392	5	4	226	8,472	10	6
1883	1,302	1	0	304	17	3	381	3	6	434	15	9	403	13	0	32	6	10	3,132	5	4	291	7,868	3	6
1884	1,906	12	0	519	19	0	649	7	6	599	13	3	432	6	3	87	7	5	4,790	1	2	291	12,313	7	6
1885	1,317	9	0	344	14	0	501	7	6	481	7	9	353	17	0	44	1	10	3,989	2	1	196	8,028	8	6
1886	1,147	1	0	333	15	9	302	10	6	434	9	0	336	13	9	36	19	7	2,949	3	7	224	8,576	18	0
1887	888	15	0	260	0	0	216	4	0	371	2	3	185	3	9	18	11	0	2,329	14	6	181	4,791	19	0
1888	1,473	5	0	186	11	3	384	1	0	524	17	6	268	16	9	40	3	3	3,501	3	9	168	6,461	6	0
1889	1,475	4	0	92	15	6	432	11	6	524	9	6	283	10	6	75	2	7	3,472	1	1	184	8,083	3	6
1890	1,372	11	0	241	4	6	511	12	6	484	18	0	221	16	9	79	1	4	3,286	7	7	188	6,943	1	6
1891	1,765	3	0	398	15	6	593	14	0	585	1	6	281	4	3	61	15	6	4,138	15	6	139	7,603	2	0
1892	1,559	13	0	421	19	0	652	9	6	505	9	0	196	14	6	42	6	2	3,609	2	2	149	5,132	8	6
1893	1,423	15	0	207	12	9	620	18	6	500	0	9	142	11	3	31	9	10	3,441	15	9	139	6,297	9	0
1894	1,290	7	0	246	17	6	641	12	6	500	0	9	142	11	3	24	11	4	3,286	12	10	124	4,345	4	6
1895	1,268	10	0	213	13	3	566	6	0	467	18	0	180	14	2	64	17	5	3,135	17	7	155	5,470	7	0
1896	1,371	15	0	205	7	9	623	2	0	500	14	7	143	16	2	90	5	10	3,332	17	5	151	4,227	8	0
1897	1,510	14	0	533	11	6	584	1	0	553	4	3	179	4	10	209	3	9	3,709	14	2	176	5,821	12	6
1898	1,406	9	0	258	12	9	453	6	6	490	19	8	365	11	10	375	14	3	3,582	19	3	188	9,397	17	6
1899	1,363	5	0	166	1	3	482	13	6	493	0	0	197	0	9	375	14	3	3,536	5	9	172	8,089	2	6
1900	1,431	3	0	189	0	6	541	19	6	501	7	0	277	14	4	922	15	2	4,362	10	6	175	8,508	14	6
1901	1,419	16	0	157	11	6	517	11	0	515	9	0	257	12	10	625	12	7	4,065	13	8	239	7,669	17	0
1902	1,212	8	0	431	3	0	491	19	6	483	15	6	167	14	5	469	14	10	3,450	1	0	169	5,299	6	6
Total	42,623	14	0	10,702	2	6	13,493	1	6	14,326	9	1	10,160	4	4	3,669	6	4	104,063	6	9	7,039	250,425	12	0

PRESENTED

17 JUN. 1904



FIFTY-FIRST
ANNUAL REPORT
OF THE COMMITTEE
OF THE
FREE PUBLIC MUSEUMS
OF THE
CITY OF LIVERPOOL,

FOR THE YEAR ENDING 31ST DECEMBER, 1903.

*(Reprint of the General Report and of the Museums' portion only of the
Report of the Committee of the Free Public Library, Museums,
and Walker Art Gallery).*



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1904.

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for the Year 1903-1904.

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GENERAL REPORT.

My "foreword" to our annual report must be one of satisfaction and congratulation. In every department of our work there has been activity and progress, and the Committee's endeavour to render the important institutions under their charge both instructive and entertaining, has undoubtedly met with a large measure of success. A great popular movement must have its critics, some entirely honest, others (the more numerous class) lack that knowledge of practical Library and Museum work to make their criticism of much value; and, perhaps, the greatest fallacy which underlies the remarks upon our institutions which we read so often in the daily and periodical press, is that our Libraries are not sufficiently educational and cater too much for the readers of light literature. Free Public Libraries ought in the first place to be entertaining and attractive; it is only when they succeed in this that they can achieve their second and still greater object, that of being educational and instructive. The first step towards the success of free libraries is to teach people not only how to read but to love reading for its own sake. We cannot do this by placing in their hands books which do not appeal to them or interest them, but we can lead them step by step from the simple story of everyday life which awakens in their hearts chords of responsive sympathy and interest, and they will pass on, it may be slowly but surely, to more serious reading, that which enters into their daily lives and, perhaps, assist them to make the fruit of their toil richer and more productive.

Mr. Andrew Carnegie, in dedicating so much of his princely wealth to the Free Library movement, has undoubtedly struck the very note of what makes for the prosperity of the multitude by putting into their hands the cheapest form of education, and which also, in the long run, should be the most effectual because it is voluntary.

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In Liverpool we can claim to have led the way in popularising the Library by striking off as far as possible all red tape. A man can stroll in from the street and take up a volume of the most recent literature without anyone asking him a question, and, so far, we are happy to say, this confidence in our readers has not been misplaced. Our catalogues facilitating the labour of readers in special subjects, and our boys' libraries also with special catalogues, indicate our desire to extend the usefulness of our institutions; and the large and growing issues of books prove that this policy is fully appreciated.

Great progress has been made in arranging the new Museum galleries; and in the course of a few months the work will be so far advanced that the extent and value of the material at our disposal, and the scientific classification which has been adopted in its display, will alike commend themselves to public approval, for while the naturalist wishing to pursue original investigation will find his work greatly facilitated, equally the schoolboy will find much to encourage and assist him in his holiday rambles in search of natural history specimens.

The Museum will thus, it is hoped, fulfil the highest mission of a museum to popularise and extend a love of nature, and to bring many of its hidden mysteries within the consideration and reach of students.

The Council is earnestly asked to consider the necessity of providing adequate accommodation for the pictures constituting our permanent gallery. For six months in each year a large portion of those pictures have to be taken down to make room for the Autumn exhibition, and not only are the public thus deprived of the pleasure of seeing them during this long period, but there is always some risk in moving works of art, and it is scarcely encouraging to donors to see their gifts so frequently displaced. The necessary extensions will cost probably £14,000, and when it is borne in mind that this grand and unique group of buildings and their contents--the

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Library, Art Gallery and Museum—form a most valuable asset of the Corporation, which cannot be estimated at less than £800,000 or £1,000,000, and that they are to a very large extent the gifts of our generous citizens, this further expenditure of money now required is neither extravagant nor unreasonable.

Mr. Dyall, the Curator of the Art Gallery, has retired after twenty-seven years' service. Liverpool owes to him a deep debt of gratitude for his earnest and successful labours in building up the Permanent Collection of Pictures, and in establishing the Autumn Exhibitions, which now hold such a high position in the esteem of the art world.

WILLIAM B. FORWOOD,

Chairman.

THE MUSEUMS.

The Director of Museums furnishes the Fifty-first Annual Report upon the CONDUCT and PROGRESS of the Museums.

I.—GENERAL.

THE FREE PUBLIC MUSEUMS comprise:—

(A) the LORD DERBY MUSEUM, of which the nucleus was the collections bequeathed in 1851 to the City, by the Thirteenth Earl of Derby. It contains both the *Local Area* and the *Systematic* Zoological, Geological, Mineralogical, and Botanical Departments, and in addition an *Aquarium*, containing both Fresh and Salt Water Animals, Amphibians and Reptiles.

(B) the MAYER MUSEUM, the larger part of which was collected and presented to the Corporation in 1867, by Joseph Mayer, Esq., F.S.A. These collections are specially rich in (a) *Egyptian, Babylonian, and Assyrian Antiquities*; (b) *Mediæval European Ivories, Bronzes and Illuminated Manuscripts*; (c) the unrivalled *Brian-Faussett Anglo-Saxon Collection*; (d) the *Mather Miniatures*; and (e) the very important *Pottery Collections*, conspicuously rich in Wedgwood and Old Liverpool Wares, arranged now in the section devoted to the handiwork of *Caucasian* men. Associated with this Museum, as belonging to the subjects illustrated by it, though not forming to any large extent part of the Mayer Bequest, are (f) the collections illustrating the ethnography of the *Mongolian* and *Melanian* races.

The building, in which these collections are housed, was erected at the cost of the late Sir William Brown, in October, 1860.

The Exhibition Galleries are open free to the public, as under:—

During January, November, and December ..	from 10 to 4
„ February „	10 to 4-30
„ March and October „	10 to 5
„ April to September „	10 to 6
Also on Monday <i>Evenings</i> during January to)	
March, and October to December ... }	„ 7 to 10

The Museums are closed on Sundays and Fridays (except the Fridays of Whit-, Easter- and Christmas-Weeks) throughout the year, as well as on Christmas Day, and days of Public Fast and Thanksgiving.

The Museums were represented by the Director at the British Association, which met at Southport under the presidency of Sir Norman Lockyer, K.C.B., LL.D., F.R.S., in September, but through ill-health he was unable to attend the Museums Association, which met at Aberdeen in July.

Since 1896, a period of eight years, 54,199 specimens of Natural History and 7,043 specimens of Ethnography, totalling close upon 61,242 specimens, have been added to the collection.

II.—VISITORS.

During the year there has been a considerable increase in the number of visitors to the Museums, compared with that of the previous year, as shown by the averages in the following table:

		1902.		1903.
		(263 Days)		(263 Days)
Total Visitors	... ..	310,472	...	499,431
Weekly Average	... ..	5,970	...	9,604
Daily Average	... ..	1,175	...	1,898

The attendance of school children under the charge of teachers has been well maintained, over 1,000 children and 50 teachers having availed themselves of the clause in the Education Code, whereby time devoted to instruction in Museums reckons as school attendance. School teachers are making increased use of the Museum theatre to give special lessons to their pupils—specimens being brought from the Museum cases for illustrating them. Such a course is found to be of greater educational value than merely a general visit with no specific object. On many occasions lectures and demonstrations have been given by members of the Staff, on arrangement having previously been made with the teachers and the Director.

Persons desirous of employing the Museums for the purpose of research, reference or sketching may, by application to the Director, and on giving satisfactory references, obtain tickets enabling them to enter on Fridays, when special facilities are afforded students. Tickets were issued, as usual, during the year (chiefly) to Artists and Students of Natural History, Osteology and Dental Anatomy, who have made extensive use of the collections, mainly on the days when the Museums were closed to the public.

The following, among others, have visited the Museums during the year for the purpose of inspecting the collections or other special object:—W. F. Wright, United States Department of Agriculture, Washington, U.S.A.; F. W. Rudler, Geological Museum, London; Professor M. O. Elton, University, Liverpool; R. J. Ussher, Cappagh, Waterford; Professor Bashford Dean, New York; Professor and Mrs. Flinders Petrie, F.R.S.; Dr. Smith Woodward, F.R.S.; J. Horne, F.R.S.; Mr. H. Balfour, Oxford; Professor Symington, F.R.S., Queen's College, Belfast; Mr. J. Garstang; Sir Henry Howarth, F.R.S., a Trustee of the British Museum; Major Williams, Madras; Professor Strong; Mr. T. B. Hall; Mr. E. Dukinfield Jones; Rev. E. U. Savage; Mr. H. Duckworth and Mr. W. L. H. Duckworth, M.A., Jesus College, Cambridge; Dr. Storie Dixon, University of Sydney, Mr. H. L. Hobson, British Museum; Mr. F. G. Apthorpe, Oxford.

III.—LECTURES.

Twenty-two lectures were delivered by members of the Staff on Monday evenings, in the Theatre of the Museums. They were illustrated by specimens from the Museums and by lantern slides. The total attendance at the lectures was 4,817, average per evening 218, the audiences belonging to a more educated class than formerly.

The following is a list of the subjects:—

A course of three lectures on "Life in a drop of Pond Water" was given by the Assistant in the Lord Derby Museum, Mr. W. S. Laverock, M.A., B.Sc., on January 12th, 19th and 26th.

A course of six Lectures on "Native Life in New Guinea and the Solomon Islands" was given by the Assistant Curator of the Mayer Museum, Mr. P. Entwistle, from February 2nd to March 9th.

Three lectures on "Egyptian Antiquities" were given by the Director of Museums, from March 16th to 30th. At the Lecture of the 30th, the mummy of a lady named Auf-aa of the XXVI. Dynasty (660-590 B.C.) was unwrapped before the audience to illustrate his lecture on "The Mummy." The face was found in a remarkable state of preservation, the hands crossed upon the breast, but the flesh had apparently been removed from the limbs before enswathement of the body. The beautifully manufactured cloth in which it was wrapped, however, had been used for another mummy at a much earlier date.

A course of ten Lectures on "The Physiological Functions of Man and Animals," was given by the assistant Curator of the Lord Derby Museum, Mr. Joseph A. Clubb, M.Sc.:—

Oct. 12th.—"Man: A Machine."

Oct. 19th.—"The Skin and Skeleton."

Oct. 26th.—"Muscle and Nerve."

Nov. 2nd and 9th.—"The Heart and the Blood."

Nov. 16th and 23rd.—"The Digestive Function."

Nov. 30th and Dec. 7th.—"The Respiratory Function."

Dec. 14th.—"The Sense Organs."

A. LORD DERBY MUSEUM.

ZOOLOGICAL DEPARTMENT.

(a) GENERAL.

The Director has much pleasure in testifying to the care and attention to duty given by all the members of the Staff.

Several dredging excursions have been undertaken during the year to the estuary of the Mersey and the Irish Sea, for the purpose of obtaining specimens for the Local Collection of Marine Fauna, with which the Museum has for a long time been very poorly

provided. These excursions have been rendered possible through the kindness of the City Engineer's Department, the Sanitary Sub-Committee having given permission for the Director to occasionally place members of the staff on board the "Beta," when on its periodic visits to the "Deposit Grounds," near the North-West Lightship. This vessel has been utilised also for the purpose of bringing fresh seawater from beyond the North-West Lightship for supplying the Aquarium. The thanks of the Committee are due to Captain Griffiths for his most willing help and courtesy during not only the trips on which the officers have accompanied him, but on those frequent occasions when he has brought in objects of interest to the Museum which have fallen in his way. These excursions have already resulted in the acquisition of some hundreds of specimens, mostly unrepresented previously in the collection, including many very rare forms.

The Science Cabinets, containing properly identified and labelled specimens, on selected subjects, have been distributed to the various Elementary Schools in the City as in former years: applications have also become more numerous for specimens for object lessons (mainly Natural History), and for the series of Technical Appliances on loan from the Museums. The increase in the applications for Museum specimens has necessitated considerable additions to the loan collections.

This educational feature, which has for its purpose the promotion of scientific teaching throughout the City, is being more and more appreciated. Numerous applications have been made to the Director by educational authorities, not only in England but in America for information as to the working of the system.

It may not be out of place to take here a general survey of what has been accomplished during the 17 months since the end of July, 1902, when the extension of the Museums was finally completed, and the first of the new metal cases for equipping the enlarged galleries was delivered, the date at which it became possible, at last, after four years of building, to commence the re-arrangement of the Museums.

The form and framework of the new cases, which are made of gun-metal (in two sizes 7ft. 6in. high by 8ft. 9in. long by 5ft. wide, and 7ft. 6in. high by 8ft. 9in. long by 2ft. 6in. wide), has resulted from the careful examination and study by the Director and Mr. Ashworth (of Messrs. Haigh & Co., Liverpool) of the most approved cases in the chief museums of Europe and America, together with numerous experiments as to the best section of the corners conducted by the latter in consultation with the Director. The general appearance of the cases, as can be seen from the views of a single case in Plate I. and in Plates II. and III. of the newly-arranged galleries, is extremely light and elegant; but what is chiefly important, they have proved perfectly dust-proof, their efficiency in this respect being due to the special design devised for the framework for receiving the single sheet-glass sides and top, and to the construction of the floor. Each case stands four-square on the floor, so that its contents may be examined from all sides. Thus the wall-space is entirely left free and its value for this purpose cannot be over-estimated for the exhibition of diagrams, drawings and labels. The shelves are in most cases of a single plate-glass sheet, supported on an almost concealed wrought-iron frame of novel design. The cases are easily transportable to any part of the building as required, by being elevated on to a couple of rubber-tired wheeled planks, specially designed for the purpose in the Museum.

On the upper floor of the Lord Derby Museum, the room formerly known as No. 1 Bird Room, has been re-cased and fitted up with a series of specimens introductory to the study of the Vertebrata. This room opens into the long horse-shoe gallery in which the systematic series are being arranged. By the close of the year 74 metal cases had been built, delivered and fitted up, and in these the entire series of the mammalia, the bulk of the non-passerine birds and part of the reptilia, have been arranged in systematic order. On the floor beneath, the ceramics and archæology, and also the entire series of the mammals and part of the birds, from the Local area, as well as the botany of the same region have been displayed or, according to circumstances, freshly arranged in their natural surroundings, for which 16 gun-metal

cases, newly apportioned, have been built and furnished with internal fittings. The Herbarium occupying the Botanical room in the transept to this floor, has also, during the past 16 months, been entirely mounted on paper as well as fixed in ten wing-frames, specially constructed for its exhibition.

In the Taxidermist's Department there have been prepared for display in the lower horse-shoe galleries, 430 freshly stuffed and mounted mammals and birds, 945 others cleaned, relaxed and partially re-stuffed, besides 246 skeletons articulated, repaired or cleaned. In addition in this Department, over 70 rock-work sylvan or water-scenes have been planned and constructed, besides close on 700 stands appropriately treated for the exhibition of solitary specimens. In these 17 months, therefore, 1,625 animals and 770 stands have been dealt with in the Taxidermist's preparation room.

In the Carpenters' shops, in addition to all the ordinary repairs and fittings, there have been made during the same period over 1,950 new stands, large supports or pedestals to receive the results of the Taxidermists' work, in addition to the devising and making of several massive polished mahogany platforms, and the alteration and reconstruction of numerous old cases, drawers and cabinets. The floors and inside of the frames of the new cases have all been painted, and the stands polished, varnished or enamelled by the Museum staff.

Encircling two of the galleries on the upper floor an extensive series of cabinets has been erected to contain the study collections for the use of students, and in these have, during this period, been carefully arranged the exotic and British birds, many thousands in number, so as to be now available for use by specialists. They have already been consulted not only by many local naturalists, but by a number of persons from other parts of England as well as of Europe and America engaged in original research, many of whom have been of world-wide reputation.

During the past year a printer has been placed on the establishment, whose time has been continuously filled in printing, glazing, and framing labels for the exterior of the cases indicating their

general contents. The complete and adequate labelling of the individual specimens has been necessarily postponed until these general labels have been completed: but the latter, also, are now being proceeded with.

Catalogues cannot be compiled in a day, because each object to be catalogued requires close examination and often prolonged study before its full history can be set out. It is extremely to be desired that Guides to the completed sections could be provided for the use of visitors, but the Director sees little hope of their preparation for some time to come, as every hour of the present, far from adequate, staff is already fully occupied in getting the general arrangement of the galleries blocked out and made presentable.

During the present year also has been published, as a special *Bulletin of the Liverpool Museums*, under the editorship of the Director, *The Natural History of Sokotra and Abd-el-Kuri*, containing in detail, the scientific results of the Expedition undertaken in 1898-9 to these islands (cf. Annual Report 1898, p. 29), by the Director and Mr. W. O. Grant of the British Museum. The volume contains 598 8vo. pages, 34 full page plates, 24 of them hand-coloured, and 88 illustrations in the text. Twenty-two distinguished specialists have greatly obliged the Committee by assisting in working out the collections, and contributing each a section to the work. One hundred and eighty-five species are described in the volume as new to science, besides a number of new genera.

It is gratifying to record, that in the various reviews which have appeared in the Scientific Journals, *The Natural History of Sokotra* has been spoken of in terms of high commendation, as "an important addition to Zoological Science," "due to the enlightened liberality of the Museums Committee of the City Council."

(b) CONSERVATION.

All the collections on exhibition have so far as pressure on the staff has permitted been periodically examined, dusted and kept free from moth or other pest. The store cabinets and tanks, containing specimens preserved in fluid, have also been systematically gone over for the purpose of renewing the spirit or

other preservative. The store cabinets have also had constant attention, the entomological collections especially requiring frequent examination.

(c) LOANS.

The following loans of Museum specimens for purposes of scientific investigation were made during the year:—

Specimen of *Coccothraustes vulgaris* ♀, twenty-three specimens of the genus *Passer* and three of the genus *Petronia* were lent to E. Hartert, Esq., Tring Museum.

(d) PRESENTS.

During the year the Museum Collections have been enriched by a large number of presentations, of which the following deserve special mention:—

A collection of Exotic Moths (Indo-Malayan) from Assam; presented by Ernest Swinhoe, Esq., Avenue House, Oxford (see p. 14).

A large collection of Insects, consisting of over 2,500 specimens; presented by the Trustees of the British Museum (see p. 14).

A collection of Shells representing 142 species; presented by Dr. Lawton Roberts, Ruabon (see p. 16).

A collection of S. American Fishes and Reptiles from the River Amazon: presented by Captain Wilson, s.s. "Mapo." Fulwood Park, Liverpool (see pp. 16, 17).

A collection of Central African Bird Skins from South Angoniland: collected and presented by H. B. Commissioner and Consul-General Alfred Sharpe, C.B. (see p. 18).

A collection of mounted British Birds; presented by D. C. Scott, Esq., Oxtou (see pp. 18, 19).

(e) EXCHANGES.

The Veterinary Department, Liverpool University, received skeletons of the Horse, Dog, Cat, in exchange (to be sent at a later date) for specimens of West African Mammals; and Prof. Bashford Dean, of New York, personally received a specimen of the Mud-fish (*Protopterus*) for an exchange to be arranged later.

(f) ACQUISITIONS.

INVERTEBRATES—

Porifera (Sponges).

One Sponge (*indet.*) (D. 5. 5. 1903. 7).

Five Sponges (*Suberites domuncula*), commensal on shell with Hermit Crabs from the Mersey estuary (D. 7. 5. 1903. 13. and D. 22. 6. 1903. 8); collected with the trawl from the s.s. "Beta," by the Assistant Curator and the Laboratory Assistant.

Sponge (*Halichondria panicea*) from Leasowe (D. 27. 7. 1903. 1); purchased.

Coelenterata (Zoophytes, Sea Anemones, etc.)

Three Sea Anemones (*Tealia crassicornis*) from Leasowe (D. 5. 6. 1903. 1); purchased.

Eight Ctenophores (*Cydippe pileus*); three species of Zoophyte (*Antennularia ramosa*, *Sertularia polyzonias*, and *Garveia nutans*); a number of Sea Anemones (*Actinoloba dianthus*) (D. 22. 7. 1903. 4); Colonies of Zoophytes (*Sertularia operculata* and *Hydractinia echinata*) from the Mersey estuary (D. 18. 9. 1903. 18 and 19, and D. 22. 6. 1903. 7 and 16-18); collected with the trawl from the s.s. "Beta," by the Assistant Curator and the Laboratory Assistant.

Echinoderms (Star-fishes, Sea-urchins, &c.)

Two Feather Star-fishes (*Antedon bifida*), four Star-fishes (*Solaster papposus*) (D. 21. 4. 1903. 6 and 7); ten Brittle Star-fishes (D. 3. 7. 1903. 1), from the estuary of the Mersey; collected and presented by Capt. Griffiths, s.s. "Beta."

Two Cake-urchins (*indet.*) from New Zealand (D. 10. 6. 1903. 143); presented by Dr. Lawton Roberts.

Rosy Feather Star (*Antedon bifida*) (D. 7. 5. 1903. 12): four species of Star-fish (*Astropecten irregularis*, *Henricia sanguinolenta*, *Ophiura ciliaris* (4), and *Antedon bifida*): and three specimens of *Spatangus purpureus* (D. 22. 6. 1903. 10-13): eleven Star-fishes (*Astropecten irregularis*, *Ophiura ciliaris*, *Ophiopholis aculeata*) (D. 18. 9. 1903. 9-11), from the Mersey estuary; collected with the trawl from the s.s. "Beta," by the Assistant Curator and Laboratory Assistant.

Photograph (platinotype) of rock-pool, showing specimens of Echini *in situ* (D. 21. 9. 1903. 1); purchased.

Two Sea-urchins (D. 15. 10. 1903. 1): presented by Miss Bell, 23, Canning Street.

Vermes (Worms, etc.)

Four Sea-mice (*Aphrodite aculeata*) (D. 21. 4. 1903. 5, and D. 5. 5. 1903. 5), one Annelid tube, one Sea-leech (*Pontobdella muricata*) (D. 5. 5. 1903. 4 and 6), from the estuary of the Mersey; collected and presented by Capt. Griffiths, s.s. "Beta."

Mass of Sand tube-worms (*Sabellaria spinulosa*) (D. 21. 5. 1903. 11), a Gephyrean (*Thalassema* sp.) (D. 22. 7. 1903. 5), number of Annelids (*Nereis jucata*) commensal with Hermit Crabs, and a Sea-mouse (*Aphrodite aculeata*) (D. 7. 5. 1903. 15 and 16); collected with the trawl from the s.s. "Beta," by the Assistant Curator and the Laboratory Assistant.

Horse Leech (*Haemopsis vorax*) from pond in Cheshire (D. 1. 7. 1903. 1).

Polyzoa.

Colony of *Vesicularia spinosa* (D. 22. 7. 1903. 1); Colonies of *Cellepora armata* and *Idomonea serpens* (D. 18. 9. 1903. 16 and 17), from the Mersey estuary; collected with the trawl by the Assistant Curator and Laboratory Assistant.

Arthropoda.

Crustacea (Crabs, Lobsters, etc.)

Two Swimming Crabs (*Portunus depurator*), each with a Parasitic Cirripede (*Sacculina carcini*) (D. 5. 5. 1903. 3), from the estuary of the Mersey; collected and presented by Captain Griffiths, s.s. "Beta."

Twelve minute Porcelain Crabs (*Porcellana longicornis*), seven Crabs (*Pilumnus hirtellus*), and one young edible Crab (*Cancer pagurus*) (D. 21. 5. 1903. 8-10).

A number of Hermit Crabs (*Eupagurus bernhardus*), each with commensal annelid (*Nereis* (*Nereilepas*) *jucata*); Shrimps (*Egeon fasciatus* and sp.); Prawns; *Galathea* sp.; Spider Crab (*Hyas coarctatus*) (D. 7. 5. 1903. 7-11); Shrimp (*Egeon fasciatus*); four Slender Spider Crabs (*Inachus dorynchus*); Crab (*Pilumnus hirtellus*) (D. 18. 9. 1903. 12-15), from the estuary of the Mersey; collected by the Assistant Curator and Laboratory Assistant by the the trawl from the s.s. "Beta."

Crab (*Corystes carsiriclaunus*) from Llanddwyn Bay. Anglesea. (D. 31. 12. 1903. 17) : presented by T. Coward, Bowden.

Tracheata (Insects, Spiders, etc.)

Beetle (*indet.*) and two Grasshoppers (*indet.*) from West Africa (D. 12. 1. 1903. 1 and 2) ; presented by Mr. A. Ridyard.

Three Lantern Flies (*indet.*), one Scorpion (*indet.*), and one Larva (*indet.*) from the Amazon (D. 7. 2. 1903. 1-3) ; presented by Capt. Wilson, s.s. "Mapo," 53, Amptill Road, Liverpool.

Five Beetles and one wood-boring Beetle (*indet.*) (D. 7. 4. 1903. 1. and D. 2. 6. 1903. 1), one Longicorn Beetle and larva (D. 20. 7. 1903. 1 and 2) ; presented by Mr. Swan, 10, Viola Street, Stanley Road, Bootle.

Collection of Exotic Moths (Indo-Malayan), consisting of 120 specimens representing 36 genera and 60 species, from Assam (D. 11. 6. 1903. 1-60) : presented by Ernest Swinhoe, Esq., Avenue House, Oxford.

Ten larvæ of Lepidoptera, representing 5 species (*indet.*) (D. 12. 12. 1903. 1-5) from Florida, U.S.A. : presented anonymously.

Thirty-one specimens of Malayan Lepidoptera from Malay Peninsula and Siamese-Malay States, representing 8 genera and 16 species, among which may be mentioned *Catopsilia scylla* ♂ and ♀, *Terias hecabe* ♂ and ♀, *Doleschallia pratip* ♂, *Papilio malayanus* ♂ and ♀, *P. helenus*, *Cyrestis irmae-martinci*, and *C. perianther* (D. 31. 12. 1903. 1-16) ; collected and presented by Messrs. Nelson Annandale, and H. C. Robinson.

Collection of Indian Lepidoptera, consisting of some 234 specimens (D. 30. 7. 1903. 14) : presented by J. Kirk Croke, Esq., Water Street, Liverpool.

A number of small Beetles and larvæ, found in specimen of Indian corn from West Africa (D. 31. 7. 1903. 1-4) ; presented by Mr. A. Ridyard.

A large collection of Insects, consisting of over 2,500 specimens, embracing Butterflies, Moths, Beetles, Grasshoppers, Flies, etc. (D. 5. 8. 1903. 14) ; presented by the Trustees of the British Museum.

Specimens of Mimetic Lepidoptera (*Papilio agestor* and *Danaus lytia*, *Euploce linnei* and *Papilio zausa*, *Epicopeia polydora*, *Papilio philoxenus* and *Papilio aristolochiæ*) (D. 14. 8. 1903. 1-7): purchased.

Photograph (platinotype) showing brood of Caterpillars of *Vanessa io* on nettle (D. 26. 9. 1903. 2): purchased.

Collection of Indian Lepidoptera, consisting of 366 specimens, representing 69 genera and 136 species (D. 26. 9. 1903. 1-136): purchased.

Ten species of Moths and a Longicorn Beetle (D. 2. 12. 1903. 1-11): presented by Mr. G. Griffiths.

Mollusca (Shells, etc.)

Twenty-one Shells (7 *Haliotis* sp. and 14 *Spirula* sp.) from Las Palmas, Grand Canary (D. 25. 2. 1903. 1-2): presented by Mrs. E. Bickersteth, "Blair Athol," Park Road West.

Thirteen Cuttle-fish (2 *Moschites cirrosa*, 5 *Rossia macrosoma*, and 6 *Sepiola atlantica*) (D. 21. 4. 1903. 1-4), one Cuttle-fish (*Moschites cirrosa*) (D. 5. 5. 1903. 1), and six *Pecten opercularis* (D. 5. 5. 1903. 2), from the estuary of the Mersey; collected and presented by Capt. Griffiths, s.s. "Beta."

Five Cowries (*Cypræa hirundo*) (D. 1. 5. 1903): presented by Mr F. P. Marrat.

Three Cuttle-fish (*Moschites cirrosa*, *Rossia macrosoma* and *Loligo media*), six Shells and Animals of *Mactra elliptica* (D. 7. 5. 1903. 1-2, 3 and 4), number of Shells and Animals of *Tapes pullastra*, *Saricava rugosa*, *Pecten varius*, *Trochus zizyphinus*, *Buccinum undatum*, Shell and Animal of *Fusus antiquus* and one Sea Slug (*Tritonia hombergi*) (D. 21. 5. 1903. 1-7), three Whelks (*Fusus islandicus* var. *propinquus* and *F. antiquus*), three Cuttle-fishes (*Moschites cirrosa* and *Loligo media*, seven Sea Slugs (*Eolis angulata* and *Doto fragilis*) (D. 22. 6. 1903. 1-6), nine Cuttle-fishes (*Sepiola atlantica* and *Loligo marmoræ*), two Sea Slugs (*Tritonia hombergi* and *Doris johnstoni*), three Clams (*Pecten opercularis*, *P. varius*, *Natica* sp., *Astarte falcata*), (D. 18. 9. 1903, 1-8), from the estuary of the Mersey: trawled by the Assistant Curator and the Laboratory Assistant from s.s. "Beta."

Collection of Shells consisting of 274 specimens comprising 66 genera and 142 species from various localities (chiefly foreign) (D. 10. 6. 1903. 1-142) ; presented by Dr. Lawton Roberts.

Tunicata (Sea-squirts, etc.)

Two species of simple Acidians from the Mersey estuary (D. 22. 7. 1903. 2 and 3), a number of specimens of *Styela grossularia* and *Molgula* *sp.* (D. 18. 9. 1903. 20 and 22) ; collected with the trawl from the s.s. "Beta." by the Assistant Curator and Laboratory Assistant.

VERTEBRATES—

Fishes.

Carp (*Cyprinus carpio*) (C. 2. 1. 1903. 1) from Newsham Park ; collected and presented by Mr. Arthur Jones, 2, March Road, Anfield.

Wolf Fish (*Anarrhichas lupus*) (C. 10. 1. 1903. 1) from Dundee presented by Mr. Perkins, St. John's Market.

Sixty-four Walking Fish (*Periophthalmus koelreuteri*) (33 living) (31 in preservative) (C. 12. 1. 1903. 1 et seq. and 2 et seq.) and forty-four ditto (12 living, 32 in spirit) (C. 28. 7. 03. 1 et seq.), from Bonny, West Africa ; presented by Mr. Fred Green, per Mr. A. Ridyard.

Thirty Fish (*indet.*) (C. 7. 2. 1903. 1. et seq.) from the River Amazon : collected and presented by Capt. Wilson, s.s. "Mapo," 53, Ampthill Road, Fulwood Park.

One Lemon Dab (*Pleuronectes microcephalus*) (C. 22. 4. 1903. 1), one Scald Fish (*Arnoglossus laterna*) and one Gurnard (*Trigla gurnardus*) (C. 5. 5. 1903. 1 and 2) and one Sole (*Solea vulgaris*) (C. 3. 7. 1903. 1.), trawled from the estuary of the Mersey ; collected and presented by Capt. Griffiths, s.s. "Beta."

Two Dragonets (*Callionymus lyra*), two Gurnards (*Trigla gurnardus*), one Whiting (*Gadus luscus* var. *blotchii*), four Whiting (*Gadus merlangus*), one Scald Fish (*Arnoglossus laterna*), one Lemon Dab (*Pleuronectes microcephalus*) and one Sand Lance (*Ammodytes lanceolatus*) (C. 7. 5. 1903. 1-7) ; one Sole (*Solea vulgaris*), one Lemon Dab (*Pleuronectes microcephalus*), one Ray (*Raia* *sp. jur.*), one Five-bearded Rockling (*Onus mustela*) and one Conger Eel (*Conger vulgaris*) (C. 21. 5. 1903. 1-5) : two Sand Lance (*Ammodytes lanceolatus*), two

Scald Fish (*Arnoglossus laterna*), three Dragonets (*Callionymus maculatus*) and ten Spotted Gobies (*Gobius minutus*) (C. 22. 6. 1903. 1-4); one John Dory (*Zeus faber*), number of Spotted Gobies (*Gobius minutus*) and two young Cod (*Gadus callarius*) (C. 22. 7. 03. 1-3); one Sole (*Solea vulgaris*) and two Spotted Gobies (*Gobius minutus*) (C. 18. 9. 1903. 1 and 2); trawled from s.s. "Beta" N.W. of the North West Lightship by the Assistant Curator and the Laboratory Assistant.

Nineteen Hag (*Myxine glutinosa*) (C. 10. 6. 1903. 1); presented by Dr. Lawton Roberts, Ruabon, North Wales.

Eighty-seven Walking Fish (*Periophthalmus koelreuteri*) (38 alive and 49 in preservative fluid) (C. 22. 10. 1903. 1 et seq.), from Opobo, West Africa: presented by Frank Hooper, Esq., per Mr. A. Ridyard.

Eggs of Shark (*Cestracion philippi*) (C. 10. 7. 1903. 1), presented by Mr. F. C. Marrat; and (C. 17. 7. 1903. 1), presented by Mr. Alan Croston, of Yokohama, per Mr. Richmond Smith.

Reptiles.

Forty-four Snakes (*indet.*), one Turtle (*indet.*), and one Lizard (*indet.*) (B. 7. 2. 1903. 1, 2 and 3), in preservative fluid, from the Amazon: collected and presented by Captain Wilson, of the s.s. "Mapo," 53, Amphill Road, Fulwood Park.

Two Limbless Lizards (*Anguis fragilis*) (B. 26. 3. 1903. 1), from Ruthin, North Wales: collected and presented by Mr. A. Pinnington, 313, Stanley Road, Bootle.

Lizard (*Lacerta sp.*) (B. 7. 4. 1903. 1): collected and presented by Mr. Swan, 10, Viola Street, Bootle.

Two young Crocodiles (B. 13. 4. 1903. 1), from Bonny, West Africa: presented by Mr. Fred. Green, per Mr. A. Ridyard.

Common Lizard (*Lacerta agilis*) (B. 14. 7. 1903. 1), taken at Aigburth; presented by Mr. H. Spicer.

Terrapin (B. 2. 9. 1903. 1), found in a Liverpool street; presented by Mr. J. Stoa, 27, St. Michael's Road, Liverpool.

Tortoise (B. 11. 11. 1903. 1); presented by Mr. R. Wilson, 179, Burlington Street, Liverpool.

Spiny Devil (*Moloch horridus*) (B. 8. 12. 1903. 1), from Kalgoorlie, West Australia: presented by Mr. Duncan Brown, 330, Scotland Road, Liverpool.

Snake (*indet.*) (B. 10. 12. 1903. 1), from Australia: presented by John Glynn, Esq., 14, Chapel Street, Liverpool.

Skin of Australian Brown Snake (B. 24. 6. 1903. 1), from the Loddon River, Australia: presented by Mrs. Cammell, 47, Smollett Street, Liverpool.

Birds.

Three Teal (*Querquedula crecca*) (B. 17. 1. 1903. 1, and B. 20. 1. 1903. 1); purchased.

Gallinule (B. 10. 2. 1903. 1), from the Aviary at Stanley Park; presented by the Parks and Gardens Committee.

Collection of Central African Bird Skins, consisting of 159 specimens, representing 69 species belonging to 66 genera (B. 22. 2. 1903. 1, et seq.), from South Angoniland, Central Africa: collected and presented by H. B. Commissioner and Consul-General Alfred Sharpe, C.B., c/o Foreign Office, London, S.W.

Blue Mountain Lory (*Trichoglossus nova-hollandiae*) (B. 4. 3. 1903. 1), from the Aviary at Sefton Park: presented by the Parks and Gardens Committee.

Four Teal (*Querquedula crecca*) (B. 5. 3. 1903. 1): purchased.

Collection of Birds' eggs (chiefly British), consisting of nearly 400 specimens (B. 24. 3. 1903. 1, et seq.); purchased.

Collection of mounted birds (25), viz.: one Razor Bill (*Alca torda*), one Black Guillemot (*Uria grylle*), one Common Guillemot (*Uria troile*), one Little Auk (*Mergulus alle*), one Black-throated Diver (*Colymbus arcticus*), one Red-throated Diver (*Colymbus septentrionalis*), one Great Northern Diver (*Colymbus glacialis*), one Gannet (*Sula bassana*), two Cormorants (*Phalacrocorax carbo*), one Shag (*Phalacrocorax graculus*), one Puffin (*Fratercula arctica*), two Gooseanders (*Mergus merganser*),

two Smews (*Mergus albellus*), one Hooded Merganser (*Mergus cuculatus*), three red-breasted Mergansers (*Mergus serrator*), one Little Grebe (*Podiceps minor*), two Eared Grebes (*Podiceps nigricollis*), one Red-necked Grebe (*Podiceps griseigena*), one Great Crested Grebe (*Podiceps cristatus*) (B. 8. 4. 1903. 1-20); presented by D. C. Scott, Esq., 2, Beresford Road, Oxtou.

Mandarin Duck (*Dendronessa galericulata*) (B. 23. 5. 1903. 1) from the Aviary at Sefton Park; presented by the Parks and Gardens Committee.

Ptarmigan (*Lagopus mutus*) (B. 29. 5. 1903. 1); purchased.

Blackbird (*Turdus merula*) (B. 2. 6. 1903. 1) from Hoylake; presented by the Director of Museums.

Nest of Long-tailed Tit (*Acredula rosea*) (B. 11. 6. 1903. 1) from Kent; presented by Thos. West, Esq., Eccleston Place, near St. Helens.

Martin's Nest and Six Young (*Chelidon urbica*) (B. 10. 7. 1903. 1); presented by Mr. J. Connely.

Nest of Garden Warbler (*Sylvia hortensis*) (B. 16. 7. 1903. 1) from Kirkby, near Liverpool; collected and presented by J. Coupland, Esq., 22, Arkles Road, Anfield, Liverpool.

Skin of Peacock (*Pavo cristatus*) (B. 27. 7. 1903. 1) from India; presented by J. Kirke Crooke, Esq., Water Street, Liverpool.

Kingfisher (*Alcedo ispida*) (B. 28. 7. 1903. 1) from Otterspool; presented by Master W. H. Taylor, 107, Alwyn Street, St. Michael's, Liverpool.

Jay (*Garrulus glandarius*) (B. 19. 9. 1903. 1) from the Aviary at Sefton Park; presented by the Parks and Gardens Committee.

Photograph of Rookery at Toombeola, Connemara, Ireland; purchased.

Clutch of Bearded Tits (*Panurus biarmicus*) in down (B. 24. 9. 1903. 1) from Hickling Broad, Norfolk; purchased.

Californian Quail (*Lophortyx californicus*) (B. 8. 10. 1903. 1) from the Aviary, Sefton Park; presented by the Parks and Gardens Committee.

Blue Tit (*Parus cæruleus*) (B. 20. 10. 1903. 1) from Fazackerley, Liverpool; purchased.

Eleven Bird Skins, viz., *Lycocorax obiense*, *Dicrurus doherityi*, *Pachycephala obiensis* (2), *Muscicapicula supererythra*, var. *pallidipectus*, *Rhipidura obiense*, *Piezorhynchus diadematus*, *Edoliosoma obiense*, *Tanysiptera obiense*, *Lorius flavopalliatus*, and *Tanygnathus megalorhynchus* (B. 2. 11. 1903. 1-10) from Obi, Molucca Islands; received in exchange.

Cat Bird (*Elurædus*) ♀ and Bird of Paradise (*Prionodura newtoniana*) ♀ (B. 26. 11. 1903. 1 and 2); purchased.

Osprey (*Pandion haliaetus*) (B. 27. 11. 1903. 1); purchased.

Mammals.

Common Seal (*Phoca vitulina*) (A. 10. 1. 1903. 1), from Dundee; purchased.

Dormouse (*Muscardinus arvellanarius*) (A. 9. 2. 1903. 1), from Suffolk; purchased.

Whiskered Bat (*Myotis mystacinus*) (A. 5. 3. 1903), from Somerset; purchased.

Two Hares, from Perth and Yorkshire (A. 6. 3. 1903. 1 and 2); purchased.

Common Shrew (*Sorex vulgaris*) (A. 7. 3. 1903. 1); purchased.

Whiskered Bat (*Myotis mystacinus*) (A. 9. 3. 1903. 1), from Alderley Edge, Cheshire; presented by Chas. Oldham, Knutsford.

Two Long-eared Bats (*Plecotus auritus*) (A. 10. 3. 1903. 1); purchased.

Skin and Skeleton of Giraffe (*Giraffe camelopardalis*) (A. 21. 3. 1903. 1); purchased.

Two nests of Common Dormouse (*Muscardinus arcellanarius*) and a Bank Vole (*Microtus glareolus*) ♂ (A. 30. 3. 1903. 1 and 2); purchased.

Skin of Lesser Shrew (*Sorex minutus*) (A. 16. 4. 1903. 1); purchased.

Polecat (*Mustela putorius*) (A. 24. 4. 1903. 1), from Cardiganshire; purchased.

Collection of six human skulls and various other human bones, from Patagonia (A. 14. 5. 1903. 1); collected by the late Asahel P. Bell, Esq., presented by Miss Ann Bell, 23, Canning Street.

Common House Mouse (*Mus musculus*) (A. 21. 5. 1903. 1); presented by Mrs. Wigglesworth.

Domestic Cavy, Abyssinian var. (A. 3. 6. 1903. 1); presented by Mr. J. W. Cutmore.

Water Shrew (*Crossopus fodiens*) ♂ (A. 8. 6. 1903. 1) from Kirkby, near Liverpool; purchased.

Collection of Human Bones consisting of 2 skulls, 3 lower jaws and various other bones (A. 28. 7. 1903. 1), from Upper Bakana, Southern Nigeria, Africa; presented by H. P. Cooke, Esq., Agent African Association, per Mr. A. Ridyard.

Bat (*Epomophorus*) (A. 28. 7. 1903. 2) from Abonema, Southern Nigeria, Africa; presented by Mr. A. Ridyard.

Fossil Tooth of Horse (A. 8. 8. 1903. 1) from Plas Heaton Cave, Denbighshire; presented by Dr. Durrant, 21, Brondesbury Road, Kilburn, London.

Skull of Hippotamus (*Hippopotamus amphibius*) (A. 4. 9. 1903. 1) from Tete, Zambesia; presented by Mr. H. Edwards, Walton Lane Board Schools.

White Stoat (*Mustela erminea*) (A. 5. 9. 1903. 1); purchased.

Chimpanzee (*Anthropopithecus niger*) (A. 6. 9. 1903. 1); purchased.

Dormouse (*Muscardinus arcellanarius*) (A. 20. 10. 1903. 1); presented by Mr. J. W. Cutmore.

Siamese Cat (A. 23. 11. 1903. 1); presented by Mr. J. B. Spry, Canon Road, Anfield.

Two Lesser Horse-shoe Bats (*Rhinolophus hipposiderus*) (A. 24. 11. 1903. 1) from Cefn, Denbighshire: presented by Mr. T. Coward, "Brentwood," Bowdon, Cheshire.

Skin of a Lamb (A. 26. 11. 1903. 1); purchased.

Two Stoats (*Mustela erminea*) ♂ and ♀ (A. 31. 12. 1903. 1) from Knowsley; presented by Mr. J. Barnes.

Anubis Baboon (*Cynocephalus anubis*) (A. 16. 12. 1903. 1) from West Africa; presented by Mr. George Wright, 43, Park Road, Liverpool.

BOTANICAL DEPARTMENT.

The acquisitions to this department are as follows:—

Collection of dried plants, representing about twenty-seven species from Bermuda (E. 8. 1. 1903. 1-27); collected and presented by Mr. H. B. Small, per Chief Constable Powell, Hamilton, Bermuda.

Specimens of Fungus (*indet.*), from the submerged peat bed, Alt Mouth, Lancashire (E. 12. 3. 1903. 1): collected (in 1895) and now presented by Mr. W. F. Price, Crosby.

Thirty-three platinotype photographs of growing plants, flowers, mosses, etc., in various localities in Ireland (E. 12. 3. 1903. 2-34); purchased.

Twenty-nine specimens illustrative of the structure of plants, from the neighbourhood of Formby (E. 30. 6. 1903. 1-21), and twenty-seven from the neighbourhood of Overton, Cheshire (E. 21. 7. 1903. 1-19); collected by the Assistant in the Lord Derby Museum.

Four plants of Maize from Egwanga, Opobo, Southern Nigeria (E. 10. 9. 1903. 1); presented by Mr. J. A. Pickles, Agent African Association, Egwanga, per Mr. A. Ridyard.

Flowering Branch of Veronica (*V. spicata*), from Newmarket Heath (E. 15. 10. 1903. 1); presented by Mr. E. T. Sachs, 17, St. Loo Mansions, London, S.W.

Small collection of dried and pressed plants, from the neighbourhood of Hoylake (E. 15. 10. 1903. 2-4); collected (15th April, 1900) and presented this date by the Director of Museums.

MINERAL AND GEOLOGICAL DEPARTMENT.

The following are the acquisitions in this department:—

Four pieces of Gold Quartz and four pieces of Iron Quartz from the Gold Mines at Ackrazie, Samvi district, French Ivory Coast, W. Africa (F. 15. 1. 1903. 1): presented by Mr. A. Ridyard, Chief Engineer, s.s. "Nyanga."

Four small pieces of Opal in the matrix (F. 12. 2. 1903. 1); presented by Mr. F. G. Aplin, 58, Hatton Garden, London, E.C.

Solid Alto-relievo Model of Scotland (F. 12. 3. 1903. 1); purchased.

Specimen of Volcanic Ash from the Mount Pelee Eruption of May, 1902 (F. 6. 5. 1903. 1); purchased.

THE AQUARIUM.

The Aquarium continues to be one of the chief attractions of the Museum.

The efforts made to keep the West African Fishes in a healthy condition have been successful, and the great interest taken in them both by specialists and the ordinary visitor is marked.

The Trout tanks continue to flourish, and some new stock was obtained by the kindness of Mr. Lyon Whittle, Town Clerk of Warrington, who presented several two-year-old Rainbow Trout and River Trout, and a number of fry of *S. irideus* and a cross of *S. fario* and *S. leucensis*. As the fish from the various hatches increase in size, they become too large for the accommodation available and a number of specimens of Rainbow Trout are presented each year to the Parks and Gardens Committee for distribution in the Park Lakes, and to local pisciculturists.

Captain Griffiths, of the Corporation Barge "Beta," continues to bring living specimens of Marine Fishes for the tanks, and on the

several occasions when the Assistant Curator has been out on the "Beta" trawling for marine specimens for the British collections, the opportunity has been taken of keeping suitable specimens alive for the Aquarium, all of which efforts have added greatly to the attractions of this section of the Museums.

The much needed extension of the Aquarium has now been commenced, and it is hoped that the 11 new tanks will enable desirable extensions of the various existing attractions, together with the addition of new features, to be made.

The following species have been exhibited alive during the year, those with an asterisk being alive at the date of this report:—

Fresh Water Hydæ (*Hydra viridis* and *H. fusca*); Sea-Anemones. The Crass* (*Tealia crassicornis*): * *Sagartia ornata*; Plumose Anemone (**Actinoloba dianthus*); Beadlet (*Actinia equina*); Various Starfishes: Horse Leech* (*Hæmopsis vorax*); Sea-Mouse (*Aphrodite aculeata*); Fresh-Water Polyzoa* (*Plumatella repens*, *Lophopus crystallinus*); Edible Crab* (*Cancer pagurus*); Common Shore Crab* (*Carcinus menas*); Hermit Crab (*Eupagurus bernhardus*); Spider Crabs (*Stenorhynchus rostratus* and *Inachus dorsettensis*); Slender Spider Crab (*Stenorhynchus tennirostris*); Cleanser Swimming Crab (*Portunus depurator*); Shrimp (*Crangon vulgaris*); Prawn (*Pandalus annulicornis*); * *Palaemonetes varians*; Pecten (*P. opercularis*); Cockle (*Cardium aculeatum*); Water Snail (*Limnæus stagnalis*); Fresh Water Eel* (*Anguilla vulgaris*); Loch Leven Trout* (*Salmo levenensis*); Rainbow Trout* (*Salmo irideus*); Crucian Carp* (*C. carassius*); Common and Mirror Carp* (*Cyprinus carpio*); Rudd* (*Leuciscus erythrophthalmus*); Three spined Stickleback* (*Gastrosteus aculeatus*); Nine spined Stickleback* (*Gastrosteus pungitius*); Minnow*; Bream*; Fresh Water Gudgeon* (*Gobio fluvialis*); Tench* (*Tinca vulgaris*); Roach* (*Leuciscus rutilus*); Pike* (*Esox lucius*); Perch* (*Perca fluvialis*); Central American Fresh-water Fish* (*Heros jacetus*); African Mud-fish* (*Protopterus annectens*); Walking Fish* (*Periophthalmus koelreuteri*); Sole* (*Solea vulgaris*); Sand Lance (*Ammodytes lanceolatus*); Conger Eel* (*Conger vulgaris*); Dragonet or Skulpin (*Callionymus lyra*); Spotted Dragonet (*Callionymus maculatus*); Gurnard (*Trigla gurnardus*); Plaice* *Pleuronectes platessa* and *Pleuronectes microce-*

phalus): various species of Skate (*Raia*): Common Frog * and Tadpoles (*Rana temporaria*): Natterjack Toad * (*Bufo calamita*): Common Toad (*Bufo vulgaris*): Italian Toad * (*Bufo vulgaris*): Crested or Great Water Newt * (*Triton cristatus*): Common or Smooth Newt * (*Molge vulgaris*): Alligator Terrapin * (*Chelydra serpentina*): Terrapin: West African Tortoise (*sp. indet.*): Sternotherer * (*Sternotherus adonsonii*): West African Crocodiles * (*Mecistops cataphractus* and *sp. indet.*): Limbless Lizard (*Anguis fragilis*): Common Lizard (*Lacerta agilis*): West African Mongoose (*sp. indet.*).

SUMMARY OF ACQUISITIONS.

Zoological.

Porifera	...	...	3 Species	...	...	8 Specimens.
Cœlenterata	...	...	8	„	...	20 „
Echinodermata	...	...	9	„	...	43 „
Vermes	...	...	7	„	...	41 „
Polyzoa	...	...	3	„	...	6 „
Arthropoda (Crustacea)			13	„	...	40 „
Arthropoda (Tracheata)			1327	„	...	3342 „
Mollusca	...	...	168	„	...	387 „
Tunicata	...	...	6	„	...	30 „
Fishes	...	...	45	„	...	251 „
Amphibians	...	...	0	„	...	0 „
Reptiles	...	...	26	„	...	57 „
Birds	218	„	...	628 „
Mammals	27	„	...	51 „
			1860			4904

Botanical.

Plants	115 Species	261 Specimens.
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Geological and Mineralogical.

Rocks and Minerals	14 Specimens.
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B.—MAYER MUSEUM.

(a) GENERAL.

In the Mayer Museum the collections of Caucasian, Mongolian and Melanian Ethnology have been re-arranged, and to the exhibition of the handiwork of each race, separate galleries have now been assigned.

Progress has been made in the re-arrangement of the *Caucasian Section* by the disposal of the Egyptian Antiquities on the floor of the Main Hall, which, for their accommodation, has been completely re-furnished with cases, many of them new, in which the collection is exhibited in chronological sequence of Dynasties.

The copy of the *Papyrus of Ani*, presented by Mr. J. Gibson, has been mounted in four large frames and displayed in the centre of the Hall. Translated and annotated by Mr. Ll. Griffith, the distinguished Egyptologist, at Mr. Gibson's request and expense, this donation forms one of the most interesting and instructive exhibits in the Egyptian Department.

The collection of European Pottery and Porcelain has been transferred from its former location to the balcony of the Main Hall.

In the *Mongolian Department*, to which the Upper Mayer Gallery has now been assigned, considerable progress has been made in displaying the collections, numerous specimens being now, for the first time, exhibited after being stowed away for many years.

In regard to the *Melanian Ethnology*, the re-arrangement of the African Section has been completed in the Mayer Basement, and many specimens here also, which had been long stowed away, have been brought into the light, and, as will be seen below, numerous additions have been made to it during the past year, especially by Mr. Copland-Crawford, H.B.M. Commissioner, Nigeria, and by Mr. A. Ridyard, Chief Engineer in the service of Messrs. Elder, Dempster and Co., who has, now for many years, personally and through his friends on the West African Coast, been most assiduous in collecting for the Mayer Museum.

This Department has been enriched also by the acquisition of two life-sized casts of natives of South Africa, modelled from life by the late Dr. Emil Holub, a view of which is given on Plate IV.

The *Local History and Archaeological Department* has been enriched by the donation of an old oak canopy, lintel of a fireplace, mouldings, and quatrefoils, from a Fifteenth century house known as Boulton's - at West Derby, Liverpool, together with photographs and plan to illustrate the same, by Mr. R. D. Radcliffe, M.A., F.S.A.

The Bennett collection of grain-stones has been arranged on a special stand in the same section.

The contents of the American Room (the old Ethnographical Gallery), removed to allow the Aquarium to be extended, have been transferred to the Mongolian Gallery in the upper floor of the Mayer Museum.

A Collection of Eolithic and Palæolithic flint implements was received from Mrs. Stopes, in exchange for duplicate Egyptian Flints previously sent to the late Mr. Henry Stopes.

As in previous years manuscripts have been lent to Mr. J. Sampson, Librarian to the University, for Palæographical study. It is to be hoped that his special knowledge may be secured to make a descriptive catalogue of the old books and MSS. in the Mayer Museum.

Many photographs of Ethnographical objects and of Pottery have been taken and sent out during the year, to illustrate various publications in England and abroad. Numerous enlargements of race types have been prepared for exchange with the British and other Museums.

A selected group of Antiquities and other objects from the Museums were exhibited, by special permission of the Committee, at the Town Hall from the 27th to the 29th of May.

(b) LOANS AND DEPOSITS.

Two manuscripts (1) S. Thomas Aquinas', *Summa Theologica*, German hand, 15th century ($\frac{M}{12/037}$), and (2) M. Eutropii Clami *Historici De Gestis Romanorum*, libri xvii., Italian, A.D. 1528 ($\frac{M}{12/068}$), lent for the use of palæographical students, to University College,

Liverpool, have been returned. Three others, (1) A Treatise on Moral Philosophy, Italian, 13th century ($\frac{M}{12,048}$); (2) History of the World, Sacred and Profane, Italian, 13th century ($\frac{M}{12,107}$), and (3) Selections from the Fathers, SS. Augustine, Gregory, Anselm, &c., English, 14th century ($\frac{M}{12,037}$), were lent to Mr. Sampson, June 29th, 1903.

(c) EXCHANGES.

Collection of seventy (27. 4. 1903, 5-74) Eolithic, Palæolithic and Neolithic Flint Implements from Swanscombe, Kent, were received from Mrs. Stopes in exchange for duplicate Egyptian Flint Implements (Seton Karr collection) sent to the late H. Stopes, Esq., March 29th, 1900.

Norfolk faggot cutter's Account Tally, in use about 1899 (10. 9. 1903. 24.); received from Mr. E. Lovett, in exchange for a copy of Washing Tally.

(d) ACQUISITIONS.

(1.) GENERAL.

Oak framing forming a canopy, lintel of the fireplace, applied mouldings and quatrefoil, from a fifteenth century house, known as Boulton's, located in Finch Lane, West Derby, Liverpool: together with a series of photographs showing the house in course of demolition and the sites of the canopy, applied mouldings and quatrefoils; also portion of the Tythe Map of West Derby, made by Jonathan Bunnison in 1835, showing position of Boulton's House and adjoining properties; collected and given by Mr. R. D. Radcliffe, M.A.

Twenty-five pipes and pipe heads (17. 4. 1903. 4), sixteenth and seventeenth century, found at Wilderspool, Warrington; given by Mr. R. D. Radcliffe, M.A.

Three pennies of Barbadoes, 1788 and 1792 (10. 9. 1903. 15-17); halfpenny of Barbadoes, 1792 (10. 9. 1903. 18); Venezuela 12½ centimos, 1896 (10. 9. 1903. 19); two three-halfpenny pieces of William IV., 1836, and Victoria, 1838 (10. 9. 1903. 20-21); presented by Dr. Durrant.

Piece of Birkinshaw's wrought rail of 1816 (22. 10. 1903. 70); presented by Mr. Clement E. Stretton.

Four copper coins (15. 1. 1903. 15-18), one penny and three half-pennies of George III., found at the South end of the Dock Estate; presented by Mr. Miles K. Burton.

(2.) CERAMICS.

Jug (14. 4. 1903. 17), impressed with mark, "Worthington and Green," Herculaneum Pottery, Liverpool; purchased.

(3.) ETHNOGRAPHY.

PRE-HISTORIC:—

Cast of a Neolithic stone celt-shaped implement (14. 4. 1903. 16), from Antrim, Ireland; presented by Mr. R. D. Darbishire.

MELANIAN RACE.

Africa.—West and South-west Africa:—

List of specimens collected and presented by Mr. A. Ridyard, Chief Engineer in the service of Messrs. Elder, Dempster & Co.:—

From Liberia:—

Kroo-boy's water-bottle, box and bag (31. 7. 1903. 1-3) from Deabo, 70 miles from Cape Palmas.

From the Ivory Coast:—

Dance rattle (15. 1. 1903. 2), from Grand Lahou.

From Sierra Leone:—

Roots of "Egira," "Bobashay," "Egboshie," (31. 7. 1903. 15).

From the Gold Coast:—

Pair of carved calabashes (15. 1. 1903. 1) from Accra: earthenware cooler and stewpot (14. 4. 1903. 1-2) from Affarmah village, 9 miles from Accra; earthenware jug (14. 4. 1903. 3) from Quarjoe village, 3 miles from Accra; earthenware water-bottle (31. 7. 1903. 4) from Affarmah.

From S. Nigeria:—

Mask "Oconeo" (15. 1. 1903. 3) from Obogolo, Ebo country;
Mask "Epo" (15. 1. 1903. 4) from Umbre, near Aquetá, Ebo

country; three large earthenware vessels (15. 1. 1903. 5-7) from Aquetá, Ebo country; piece of carved and painted wood (14. 4. 1903. 4) and wooden painted figure (14. 4. 1903. 5) from Azumini, near Aquetá, Ebo country; two (old) earthenware nozzles for country bellows (14. 4. 1903. 6-7) and one new one (14. 4. 1903. 8), from Bonny; carved wooden head (31. 7. 1903. 5) from Ichopo, Ebo country; cap (31. 7. 1903. 6), drum (31. 7. 1903. 8), Qua, Ebo country; drum (31. 7. 1903. 9) taken in the Aro Expedition; grass bag (31. 7. 1903. 7) from Ishuma, Ebo country; earthenware pots (31. 7. 1903. 10-13) from Bende, Ebo country; pair of native bellows with clay nozzle (31. 7. 1903. 14) as used by native blacksmiths, Bonny.

The following specimens have been presented through Mr. A. Ridyard:—

Medicine man's wand of office in bronze (14. 4. 1903. 15), from D'gbo, beyond Benin; native gold washer's outfit, consisting of round and pear-shaped copper and brass washing pans, scales, weights and a magnet, a set of native goldsmith's standard weights with native names and values (22. 10. 1903. 13-50); presented by P. A. Renner, Esq., Barrister-at-law, Cape Coast Castle.

Basket (15. 1. 1903. 8), from Port Lokko, Timme country, Sierra Leone; presented by Mr. J. B. Cole, Bathurst.

King's messenger's sword (15. 1. 1903. 9), the handle coated with gold, from Cape Coast Castle; presented by Mr. John Sarbah, Cape Coast Castle.

Shot belt (15. 1. 1903. 10), from Accra; presented by Mr. E. W. Q. Papafio, Accra.

Three large wooden "Ju-ju" figures (22. 10. 1903. 1-3), from Bonny, S. Nigeria; presented by Chief Squiss Banigo.

Native sponge (15. 1. 1903. 11); presented by Mr. T. Addaquay, Cape Coast Castle.

Mask (15. 1. 1903. 12), from Ebo country, S. Nigeria; presented by Mr. F. C. Mayo.

Brass jug (15. 1. 1903. 13), taken in the "Bida" war; presented by Mr. E. A. T. Wilson, Sierra Leone.

Gaming board (15. 1. 1903. 14), from the Ebo country, S. Nigeria; wooden paddle (14. 4. 1903. 10), from Opobo; wooden figure (31. 7. 1903. 17) and mask (31. 7. 1903. 18), from the Qua country, S. Nigeria; presented by Mr. John Miller.

Wooden seated figure (14. 4. 1903. 9), with moveable arms, from the Qua country, Opobo, S. Nigeria; stick (31. 7. 1903. 20), from Eket, Qwa Ebo, Opobo, S. Nigeria; presented by Mr. Frank Hooper.

Carved wooden fetish head (14. 4. 1903. 11), from Ishokpo, Ebo country, S. Nigeria; Princess head in carved wood (31. 7. 1903. 24), from Owerri district, S. Nigeria; presented by Mr. B. T. Woods, Bonny.

Earthenware country pot (14. 4. 1903. 12), from Bissao; presented by Mrs. James, Sierra Leone.

Calabash (14. 4. 1903. 13), from Bissao; presented by Mr. William Sawyer, Sierra Leone.

Grass cap (14. 4. 1903. 14), from Nigeria; presented by Mr. W. C. D. Rosenior, Sierra Leone.

Ropes, used for climbing trees (31. 7. 1903. 16), from Egwanga, Opobo, S. Nigeria; presented by Mr. J. A. Pickles.

Wooden fan (31. 7. 1903. 19), from an Ashantee village; presented by Mr. James J. Kuofi.

Native earthenware soup tureen (31. 7. 1903. 21), made at Korlibu, one mile from Accra, Gold Coast; presented by Dr. J. Edward Mettle.

Two manilla (31. 7. 1903. 22-23); presented by Mr. W. H. Law.

Calabash (31. 7. 1903. 25), with shell covering, from Quitta; presented by Mr. John Koblavie, Jellah Coffee.

Earthenware pipe head (22. 10. 1903. 4), from Akim, Gold Coast; Fan hide (22. 10. 1903. 5), from Accra; red and black earthenware water coolers (22. 10. 1903. 6-7.), from Manghai, Accra; presented by Mr. McDonald G. B. Bruce, Accra.

Grass Cap (22. 10. 1903. 8), from Lagos; fly brush of fibre (22. 10. 1903. 9); native ironwork (hinges, spikes, &c.) (22. 10. 1903. 10); dagger sheath of snake skin (22. 10. 1903. 11); and earthenware bowl (22. 10. 1903. 12), all from N'Kwalla, Imo River, Ebo country, Opobo, S. Nigeria: presented by Mr. Robert Tannoek.

Coral beads (15. 1. 1903. 19), from Benin City: presented by Mr. H. Ling Roth.

War drum "Ogri" (27. 4. 1903. 1), from Otujerimi, S. Nigeria, and skulls of a man and a leopard (27. 4. 1903. 2-3) found inside the drum: Oguta canoe (27. 4. 1903. 4), used for carrying Government Mails in the Niger Territories: collected and presented by W. E. B. Copland-Crawford, Esq., H.B.M. Divisional Commissioner, S. Nigeria.

Ju-ju offering (11. 6. 1903. 1), from Horsfall Island, Benin River: collected and presented by Dr. Orr, ss. "Axim."

Specimens (10. 9. 1903. 1-6) illustrating the spinning and weaving of cloth from silk as follows: (1) Cocoon of native silkworm, (2) interior of same, (3) prepared silk fibre, (4) dyed silk fibre, (5) yarn spun from above, (6) cloth woven on native loom from the yarn, (7) piece of cloth woven from native cotton: from the district of Kano, N. Nigeria: collected and presented by Mr. James Pickering Jones.

Canoe (22. 10. 1903. 51), from Cape Palmas, Liberia: collected and presented by Mr. W. H. Renner.

From South Africa:—

Casts of natives of the Bechuana and Monkoja tribes (13. 3. 1903), modelled from life by Dr. Emil Holub; purchased.

MONGOLIAN RACE:—

America, South.—

Stone Pestle (10. 9. 1903. 23), Patagonia: presented by Miss A. Bell.

Tibet.—

Sheets of printed prayers (22. 10. 1903. 52-59): luck flag and hung-horse (22. 10. 1903. 60-61): scorpion charm against demons (22. 10.

1903. 62); charm to bind disease-devils (22. 10. 1903. 63); luck flags (22. 10. 1903. 64-65); scroll (22. 10. 1903. 66); woven bag (22. 10. 1903. 67); knife (22. 10. 1903. 68); purchased.

Burmah.—

Manuscript (22. 10. 1903. 69); presented by Mr. David Boyd.

CAUCASIAN RACE:—

Egypt.—

Painted Scene from the Ancient Egyptian Book of the Dead (11. 6. 1903. 2); presented by Sir E. Maunde Thompson, British Museum.

Flints (11. 6. 1903. 3-4), found in a cargo of Beans from Alexandria, 1903; collected and presented by Mr. W. Townsing.

Clay Pipe head (10. 9. 1903. 22) from Egypt; presented by Dr. Durrant.

Papyri (14. 12. 1903. 1) Notice of removal, A.D. 19-20 (see Oxyrhynchus Papyri 11, No. 252), and a "Letter from Gemellus circa, A.D. 100," (see Fayum Towns, No. 248); presented by the Committee of the Egypt Exploration Fund.

Ethnography and Photographs 253

HENRY O. FORBES,

DIRECTOR OF MUSEUMS.

PRESENTED

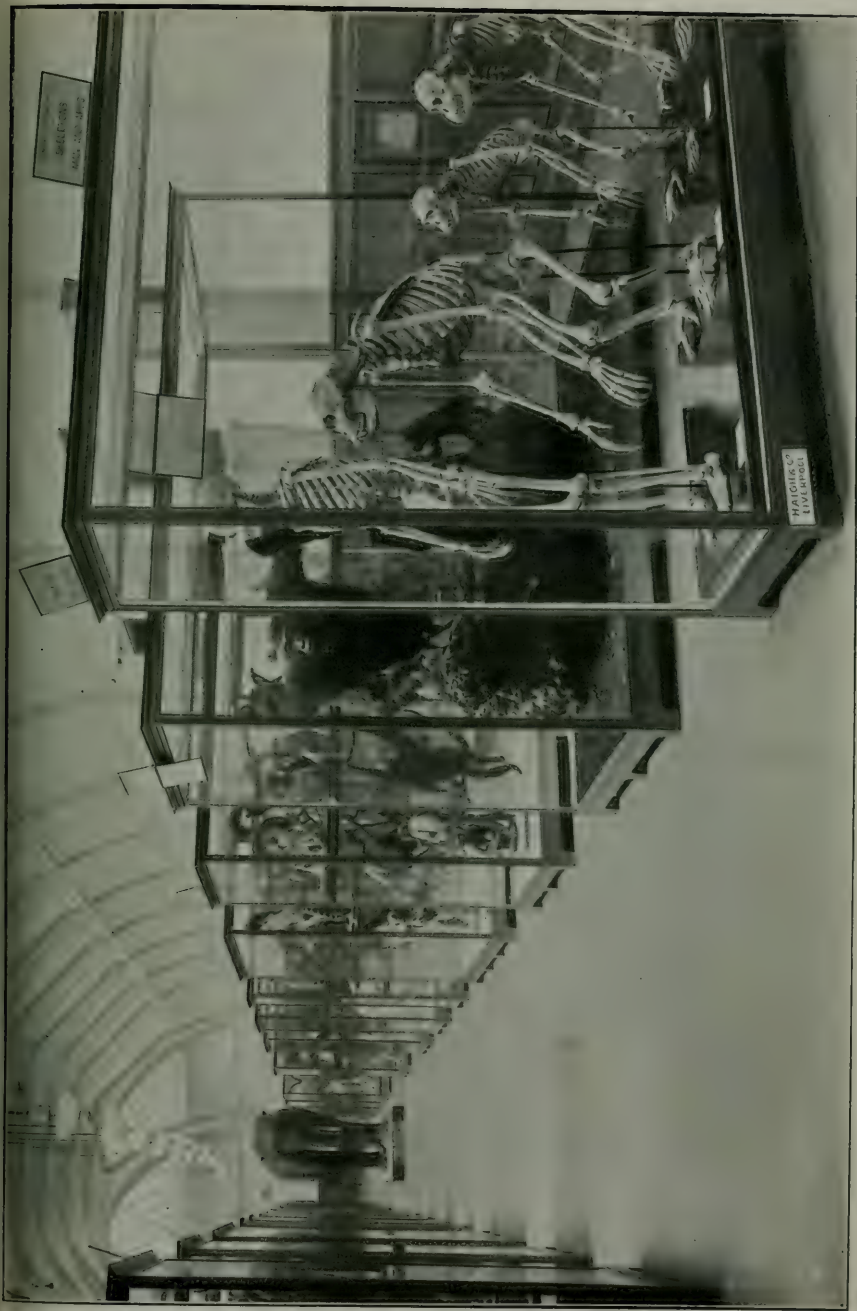
20 MAY. 1904





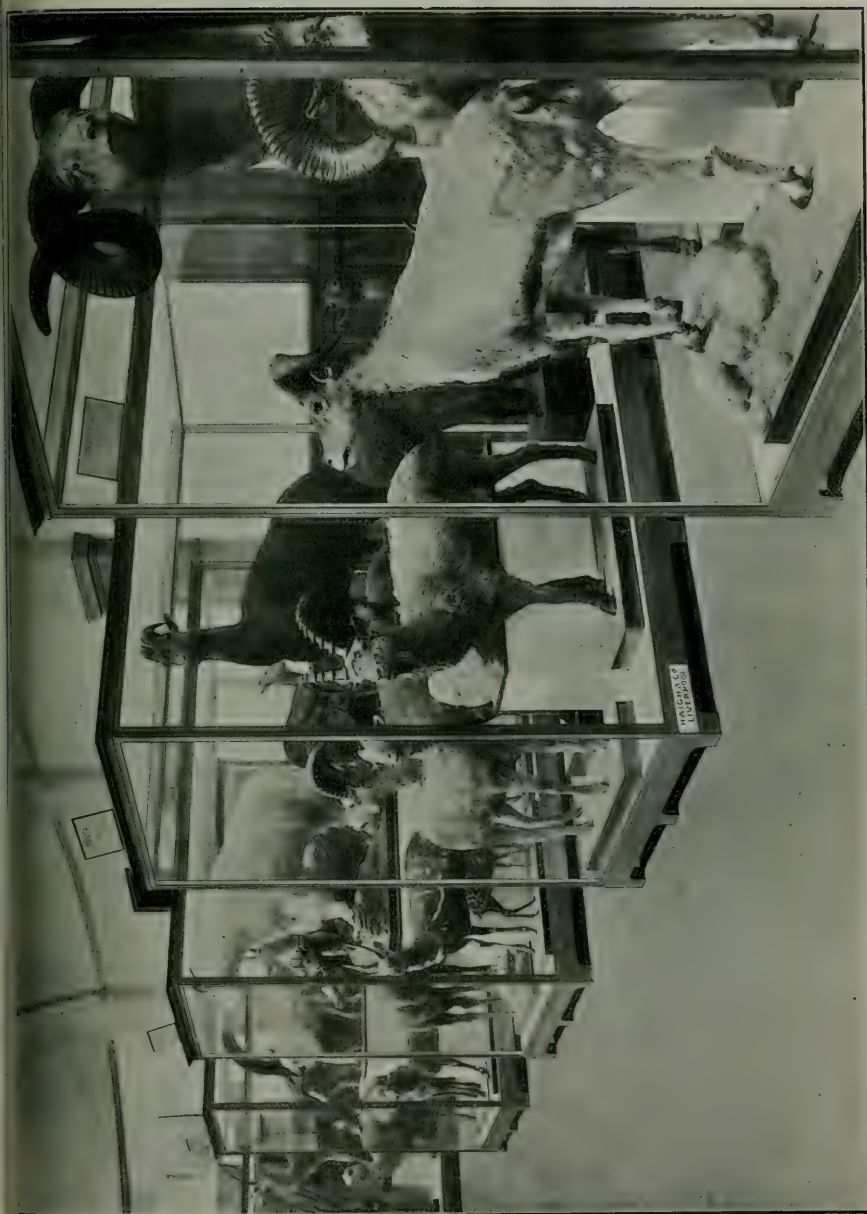
VIEW OF ONE OF THE NEW METAL CASES, ISOLATED.





GENERAL VIEW OF THE MAMMALIAN GALLERY.





CLOSER VIEW OF CASES IN THE MAMMALIAN GALLERY.



Plate IV.



CASE IN THE AFRICAN SECTION OF THE MAYER MUSEUM.



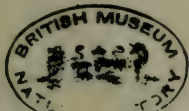
FIFTY-SECOND
ANNUAL REPORT
OF THE COMMITTEE
OF THE
PUBLIC LIBRARIES,
MUSEUMS,
AND
ART GALLERY,
OF THE
CITY OF LIVERPOOL,
FOR THE YEAR ENDING 31ST DECEMBER, 1904.



LIVERPOOL:

C. TINLING & Co., LTD., PRINTING CONTRACTORS, 53, VICTORIA STREET

1905.



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for the Year 1904-1905.

THE RIGHT HONOURABLE JOHN LEA, LORD MAYOR.

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Assistant Curator, Walker Art Gallery :

ARTHUR G. QUIGLEY.

GENERAL REPORT.

It is very gratifying to note the ever-growing popularity of our Lending Libraries and Reading Rooms. These institutions, while largely for the purpose of entertainment, are increasingly used for the more serious work of education and instruction.

The Committee have recognised that the time has arrived when old-fashioned and unnecessary restrictions to the full use of our books should be removed. The open bookshelves in the Picton Reading Room have been much appreciated: the books being in constant demand, and the losses trifling. It is now proposed to accept one guarantor instead of two for those who wish to become borrowers from our Lending Libraries, and to allow them to have a second or student's ticket, which will only be available for a book other than a novel. We feel confident that this privilege will be accepted as a boon, and we trust it will lead to reading of a more serious character. There can be no doubt that the true policy for the successful management of a Library is to popularise it in every way by removing all arbitrary restrictions and by assisting readers in their selection of books. In so doing you cannot fail to make every reader you can secure a better man and more valuable citizen.

The opening of the Anfield Reading Room has not been, so far, an unqualified success, and in this is only another proof that reading rooms without the advantages of a lending library are not deemed sufficient. This is so far gratifying, inasmuch as it indicates that the people do not merely require newspapers and magazines. We hope, however, in the near future to form a library for the circulation of books for home reading.

The approaching completion of the Andrew Carnegie and Kirkdale Libraries seems a fitting time to point out that the Liverpool Branch Libraries have won a very high place in the

opinion of Librarians, and are regarded as models of what such buildings should be. For this we are much indebted to the long experience and thought of our Chief Librarian.

The Museum has made great strides towards completion, and in a few months will be practically finished. The extent and quality of the specimens exhibited, their classification and arrangement, have been greatly admired by Naturalists. To Dr. Forbes and his Assistants (Mr. Clubb and Mr. Laverock) the thanks of the Committee are due for giving us a Museum which, in popular attractiveness and successful arrangement, is admittedly only second to the British Museum.

The Autumn Exhibition of Pictures proved, as usual, very attractive, and was quite equal to any of our exhibitions in interest and merit. Further additions have been made to the permanent collection, and the question of finding additional Gallery space presses with increasing urgency.

WILLIAM B. FORWOOD,

CHAIRMAN.

LIBRARY DEPARTMENT.

CHIEF LIBRARIAN'S REPORT.

The appended statistical tables, showing the work of the Libraries during the past year, exhibit some remarkable figures. The total number of volumes issued for perusal, either in the Reading Rooms of the Libraries or at home, amount to 2,052,896. The magazines and reviews issued in the Reading Rooms numbered 1,088,713, the persons who consulted the newspapers are computed at 1,084,168, and those who have attended the free lectures 76,481. Such figures are unmistakable evidence of the popularity and appreciation of the Libraries as resorts for mental improvement and recreation. The fluctuations which take place in the total number of books issued, and the classes of literature into which they are divided, are not always easy to account for. The Picton Reading Room is essentially a student's room, for the reader of novels or the illustrated weekly papers finds no encouragement. Here there has been a falling off in the books lent of 12,879, but this may find its explanation in the increased number of books placed so that readers may help themselves to them without the intermediary of one of the library officials. Exact statistics of the use of these books cannot be taken. It is pleasing to state here how few losses of books have been sustained since these open-access shelves were instituted; to those engaged in literary work, and to students generally, these standard books of reference, available at pleasure, are highly appreciated, while the general reader is no less pleased with the selection of the latest books published placed at his disposal.

The total number of readers who used the Picton Reading Room during the year was 228,211, and of these 10,235 were lady students.

The Brown Reading Room of the Central Library is resorted to by those who prefer recreative rather than studious reading, and for the various newspapers and directories. The increase or decrease in the book and magazine issues, and the number of readers referring to the newspapers, have usually been regarded as indicating, more or less,

the state of trade in the city, more particularly at the docks. This last year the reduction in works of fiction issued in this room, amounting to 56,689, is somewhat remarkable. There has also been a decline in the magazines issued, and in the number of readers referring to the newspapers.

It is evident that reading has not been resorted to to fill up spare time to the extent as heretofore. There have been satisfactory increases in the issue of books under the heads of History, Biography, Education, Commerce, and Political Economy. Of the increased issues made under the two last headings, no doubt, much is due to the interest which many persons have taken in the Fiscal Question, and to the special catalogue which was printed of the books, pamphlets and review articles in the Library on that much-debated subject.

The Hornby Room for the storing and display of the magnificent collection of art books, prints and autographs bequeathed by the late Hugh Frederick Hornby, of Liverpool—and for the erection of which he also bequeathed a sum of £10,000—is now commenced, and will, when completed, be of considerable architectural merit.

The severance of the official connection of Mr. Thomas Formby as Deputy Librarian calls for special mention, alike from his long and faithful services of nearly fifty years, and from his book knowledge and the assistance he was always willing to render the general body of readers in the Reference Library. He retires from active duty with the good wishes of numerous readers and the entire Library Staff.

The total number of volumes issued in the Lending Libraries amounts to 1,437,829. This is an increase of nearly 50,000. The number of volumes distributed in these Branch Libraries for home reading is 105,764. The readers holding tickets for this purpose number 25,534. This shows a decrease over the total of the previous year of 423. The Library Committee, with the object of removing, as far as they can judiciously, impediments to the use of the Branch Libraries, have resolved to accept the name of one guarantor, instead of two as formerly, for those who choose to constitute themselves

readers. The Committee have also determined to permit each borrower to hold a second, or student's ticket. This ticket can only be used for obtaining a book other than a novel. This is expected to be much appreciated by many readers who would like to vary their reading, devoting some portion of the evening to that which is instructive and educational, and when somewhat tired to that which is in the nature of recreation.

The general decrease in books issued during the year applies also to books for the blind, which is 1,407 volumes, or 423 less than last year. The books on technical subjects lent are 100,000 less one. Music is represented by an issue of 22,563 volumes. From the carefully selected collections of books for juvenile readers between the ages of 9 and 14, 206,523 volumes have been lent. Among the books which are reserved by request of our young readers until they come again to continue their reading, much pleasure and surprise would be excited by the number of books on History, Travels, Biography, and Elementary Science to be found among the books reserved.

On the 18th of October was opened, for the benefit of the inhabitants of the district of Anfield, the Rawdon Reading Room. The room was principally erected out of trust funds bequeathed by the late Mrs. Charlotte Rawdon, the original purpose of which were no longer adapted to the wants of the neighbourhood. Councillor William Evans performed the opening ceremony, and delivered an appropriate address on the value and importance of reading. The substance of the address was emphasized by Sir W. B. Forwood, Mr. R. D. Holt, Alderman Stolterfoht, and other City Councillors, and, in the presence of a large and appreciative audience, the fine and handsomely-furnished room was declared open. The room is supplied with the principal London and Provincial newspapers, a large number of magazines, reviews, &c., adapted to various tastes, and a selection of some 400 books of all kinds, to which readers have unrestricted access.

The Andrew Carnegie and Kirkdale Branch Libraries approach completion, and promise, by their size, plan, elevation and arrangements, to be among the finest of their kind.

TABLE I.
SUMMARY OF STATISTICS OF LIBRARY DEPARTMENT.

	Volumes issued.	Weekly, &c. Magazines issued.	Newspaper Visitors.	Lecture Attendance.
Reference Library.				
PICTON READING ROOM:				
Volumes issued.....	290,020			
Magazines and Reviews		101,625		
BROWN LIBRARY:				
Volumes issued.....	128,193			
Monthly and Weekly Magazines		204,472		
Illustrated Papers, issued in volumes ("The Graphic," "Illustrated London News," "Punch," &c.)	56,233			
Directories	99,457			
Specifications of Patents for Inventions	41,164			
Visitors to the Newspapers			308,678	
Lending Libraries.				
Volumes lent for Home Reading	918,120			
KENSINGTON LIBRARY READING ROOMS:				
Volumes issued.....	131,479			
Magazines and Reviews		205,042		
Visitors to the Newspapers			161,867	
EVERTON LIBRARY READING ROOMS:				
Volumes issued.....	166,193			
Magazines and Reviews		199,129		
Visitors to the Newspapers			152,995	
TOXTETH LIBRARY READING ROOMS:				
Volumes issued.....	158,472			
Magazines and Reviews		193,187		
Visitors to the Newspapers.....			256,981	
WAVERTREE LIBRARY READING ROOMS:				
Volumes issued.....	37,903			
Magazines and Reviews		112,409		
Visitors to Newspapers			49,614	
WALTON LIBRARY READING ROOM:				
Volumes issued.....	16,933			
Magazines and Reviews		63,226		
Visitors to the Newspapers			71,546	
RAWDON READING ROOM:				
Volumes issued	8,729			
Magazines and Reviews		9,623		
Visitors to Newspapers			5,025	
Evening Reading Rooms.				
Newspapers, Magazines, and Reviews.....			77,512	
Lectures.				
Attendance				76,481
Totals	2,052,896	1,088,713	1,084,168	76,481

TABLE II.

Comparative Statement of issues in the Picton Reading Room :—

Classification.	1904.	1903.
Theology, Morals, and Metaphysics	19,883	22,878
Natural Philosophy, Mathematics, &c.	27,319	27,793
Natural History	10,265	14,644
Science and the Arts	46,407	46,879
History and Biography, &c.	32,949	29,659
Topography and Antiquities	12,680	13,934
Voyages and Travels, Gazetteers, Atlases	23,480	27,568
Collected Works, Essays, &c.	36,284	45,088
Jurisprudence, Law, and Politics	10,124	10,816
Commerce, Political Economy, Social Science, &c.	19,522	15,579
Education and Language	23,566	22,361
Poetry and Dramatic Literature	10,970	12,699
Latin and Greek Classics	2,974	3,282
Encyclopædias, Dictionaries, &c.	13,597	9,719
Totals	290,020	302,899

TABLE III.

Shewing the number and classification of works contained in the Reference Library :—

Classification.	Volumes.
Theology, Morals, and Metaphysics	8,535
Natural Philosophy, Mathematics, &c.	3,629
Natural History	7,148
Science and the Arts	18,047
History and Biography, &c.	15,511
Topography and Antiquities	7,181
Voyages and Travels, Gazetteers, Atlases	6,342
Miscellaneous Literature (principally collected Works, Essays, Reviews, Societies' Proceedings, &c., in volumes)	31,551
Jurisprudence, Law, and Politics	10,601
Commerce, Political Economy, Social Science, &c.	3,474
Education and Language	2,245
Poetry and Dramatic Literature... ..	4,789
Prose Fiction	5,308
Latin and Greek Classics and Translations	1,067
Encyclopædias and Works of General Reference	4,985
Total	130,413

TABLE IV.

CENTRAL LENDING AND BRANCH LIBRARIES.

GENERAL STATISTICS.

Volumes issued, &c.	Central	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Wavertree Branch.	* Rawdon Reading Room.	Total
Volumes issued in Lending Departments	204,554	124,029	177,213	155,489	95,208	68,812	96,885	—	918,120
Volumes issued in General Reading Rooms.....	—	91,815	128,006	85,080	16,933	—	18,022	8,729	348,535
Volumes issued in Ladies' Rooms	—	24,457	7,793	17,769	—	—	1,625	—	51,644
Volumes issued in Boys' Rooms	—	49,921	22,673	28,630	—	—	18,256	—	119,480
Magazines issued in General Reading Rooms	—	135,627	150,238	140,057	63,226	—	41,945	9,623	540,716
Magazines issued in Ladies' Rooms	—	28,599	32,930	40,745	—	—	19,531	—	121,805
Magazines issued in Boys' Rooms	—	34,903	10,019	24,240	—	—	50,938	—	120,099
Newspaper Readers in General Reading Rooms	—	145,242	225,138	135,153	71,546	—	46,309	5,025	623,413
Newspaper Readers in Ladies' Rooms	—	7,753	31,793	26,714	—	—	3,305	—	69,56
New Tickets issued	2,905	1,506	2,534	2,165	1,315	814	1,006	—	12,24
Readers on the Books.....	6,001	3,026	5,304	4,277	2,514	1,607	2,805	—	25,53
Books lost or injured and paid for	49	15	17	28	21	3	1	—	18
Books lost from Lending Departments.....	3	—	1	2	1	—	—	—	—
Books stolen from Reading Rooms	—	16	12	14	1	—	—	—	4
Volumes worn out and withdrawn	486	794	25	352	—	—	—	—	1,65
Volumes worn out and replaced	712	282	234	443	336	43	—	—	2,00
Volumes added	502	428	499	523	480	271	435	—	3,13
Total volumes in Libraries	15,494	24,919	26,373	16,643	8,207	5,671	8,457	—	105,76

* Opened 20th October, 1904.

TABLE V.

Shewing the classification of volumes issued.

Classification.	Lending Departments.							Reading Rooms.							Total Issues.	
	Central.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Sefton Park Branch.	Wavertree Branch.	Total issued for Home Reading.	Everton Branch.	Toxteth Branch.	Kensington Branch.	Walton Branch.	Wavertree Branch.	Rawdon Reading Room.		Total issued in Reading Rooms.
Theology, Morals, &c.....	2,249	2,061	2,200	1,261	885	408	765	9,829	2,701	5,720	4,222	220	614	79	13,556	23,385
Natural Philosophy.....	3,697	1,894	1,581	1,631	1,535	545	872	11,755	4,604	10,019	4,195	415	1,229	45	20,507	32,262
Natural History.....	2,249	852	1,019	1,505	774	460	902	7,761	2,803	5,813	4,717	283	523	104	14,243	22,004
Science and the Arts.....	13,911	6,943	9,320	9,234	5,285	2,407	4,813	51,913	20,406	14,176	10,327	1,251	1,843	83	48,086	99,999
History and Biography.....	5,460	2,906	4,648	3,241	2,036	1,310	2,347	21,948	11,923	16,530	11,056	1,121	1,191	357	42,178	64,126
Topography and Antiquities	1,507	580	1,051	794	699	472	618	5,721	6,249	5,540	4,923	174	402	137	17,425	23,146
Voyages and Travels.....	3,479	1,974	2,710	1,770	1,400	968	2,110	14,411	10,013	15,932	6,312	1,144	1,025	987	35,413	49,824
Miscellaneous Literature...	3,695	6,094	7,750	7,445	3,202	570	1,543	30,299	15,730	17,900	21,670	3,529	5,370	338	64,537	94,886
Jurisprudence, Law, &c.....	478	152	129	204	99	83	266	1,411	2,829	2,190	3,016	185	167	74	8,461	9,872
Commerce, &c.....	2,431	1,030	1,554	1,009	609	253	483	7,369	14,304	4,759	6,878	1,440	770	190	28,341	35,710
Education and Language...	1,713	859	691	613	401	376	531	5,184	2,383	7,236	5,336	986	1,846	437	18,224	23,408
Poetry and the Drama.....	1,526	575	743	953	415	304	485	5,001	819	7,147	2,786	141	228	262	11,383	16,384
Prose Fiction.....	160,496	81,055	115,055	108,683	77,868	55,656	67,212	661,025	19,536	18,758	18,625	6,044	3,868	4,989	71,820	732,845
Latin and Greek Classics...	256	284	223	111	—	—	109	983	235	104	191	—	571	14	1,115	2,098
Books for the Blind.....	1,407	—	—	—	—	—	—	1,407	—	—	—	—	—	—	—	1,407
Books for the Young.....	—	17,670	28,569	22,035	—	—	13,829	82,103	51,658	26,648	27,225	—	18,256	633	124,420	206,523
TOTALS.....	204,554	124,929	177,243	155,489	95,208	63,812	96,885	918,120	166,193	158,472	131,479	16,933	37,903	8,729	519,709	1,437,829

* Of this total 22,563 were volumes of Music.

TABLE VI.—Shewing classification of Borrowers.

Classification.	Central.	Everton Branch.	Toxteth Branch.	Kensing- ton Branch.	Walton Branch.	Sefton Park Branch.	Waver- tree Branch.	Total
Architects, Builders, and Surveyors.....	30	3	15	12	6	5	5	76
Artists, Photographers, and Draughtsmen	78	5	32	29	6	8	14	172
Bakers, Butchers, and Grocers	71	67	127	71	48	16	37	437
Boilermakers, Platers, and Riveters	3	6	11	8	7	1	3	39
Bookbinders, Printers, and Stationers.....	124	36	57	58	14	4	27	320
Bookkeepers, Clerks, and Agents	2,312	477	698	549	370	227	294	4,927
Boot and Shoe Makers	16	7	16	13	8	3	4	67
Box Makers	14	5	4	4	2	—	—	29
Brass, Iron, and Steel Founders	14	6	10	8	5	1	—	44
Bricklayers, Slaters, and Masons	17	22	18	18	12	2	16	105
Cabinetmakers, French Polishers, &c.....	52	13	38	40	—	5	4	152
Carpenters and Joiners	54	36	65	53	34	13	26	281
Chemists and Druggists	32	7	34	19	9	3	16	120
Clergymen, Doctors, and Lawyers	66	12	30	22	12	12	12	166
Coach Painters and Builders.....	13	2	19	12	—	—	7	53
Cooks, Waiters, and Waitresses	50	11	23	22	11	10	—	127
Customs' Officers, Police, Postmen, &c. ...	137	67	133	140	75	23	74	649
Domestic Servants	22	29	31	19	3	36	3	143
Dressmakers and Milliners.....	143	42	61	67	17	22	13	365
Engineers, Electricians, and Machinists...	135	97	168	73	68	17	39	597
Farmers and Gardeners	8	2	12	6	5	15	12	60
Firemen	4	1	5	11	3	—	7	31
Hairdressers	15	9	16	10	5	—	2	57
Ironmongers	9	3	5	2	1	2	3	25
Labourers	60	103	108	28	38	3	6	346
Licensed Victuallers, Brewers, & Barmen	50	15	19	17	8	1	6	116
Mariners.....	19	10	39	11	10	7	2	98
Merchants and Brokers	39	4	29	17	4	10	6	109
Messengers, Office Boys, and Apprentices.	337	111	125	120	82	26	86	887
Music Teachers.....	21	5	8	25	8	2	6	75
Musicians	22	5	22	23	6	2	3	83
Nurses	27	12	39	19	20	13	4	134
Painters, Plumbers, and Gasfitters	48	41	78	36	26	12	20	261
Pattern Makers, Moulders, and Turners...	5	14	19	9	6	2	1	56
Pawnbrokers.....	10	6	15	8	1	1	4	45
Schoolmasters and Teachers	260	203	174	199	132	106	88	1,162
Students and Scholars	163	364	581	436	134	93	348	2,119
Shipwrights, Riggers, and Sailmakers.....	2	12	16	7	2	1	1	41
Smiths	6	12	19	6	8	—	2	53
Tailors and Drapers.....	138	25	38	43	6	8	14	272
Telegraphists and Typists	124	23	59	71	36	19	20	352
Tobacconists	45	9	10	12	2	—	—	78
Warehousemen and Storekeepers.....	116	41	74	68	10	4	5	318
Watchmakers, Jewellers, and Opticians ...	29	11	10	13	4	1	6	76
Miscellaneous	302	83	59	186	144	78	172	1,024
No occupation (principally females).....	759	952	2,135	1,657	1,106	793	1,385	8,787
Totals.....	6,001	3,026	5,301	4,277	2,514	1,607	2,805	25,534

TABLE VII.—EVENING READING ROOMS.

	1904.		1903.	
	Attendance.	Average per Night.	Attendance.	Average per Night.
Chatsworth Street Council Schools 306 days	25,982	85	25,724	84
Stanley Road Council Schools .....306 days	51,530	169	43,857	159
	77,512	254	74,581	243

FREE LECTURES.

DELIVERED IN THE PICTON LECTURE HALL,

JANUARY TO MARCH, 1904.

- BAKER, JAMES, F.R.G.S., F.R.H.S. "Bohemia of to-day," with lantern illustrations.
- BATHGATE, COUNCILLOR ARCHIBALD. "Bees and bee-keeping," with lantern illustrations.
- BENSON, CAPTAIN W. J. P. "Jamaica, the isle of springs," with lantern illustrations.
- COATES, CHARLES. "The production of a newspaper," with lantern illustrations.
- CORTIE, REV. A. L., S.J., F.R.A.S., of Stonyhurst College Observatory. "Recent astronomical photography," with lantern illustrations.
- COWELL, PETER, F.R.H.S., Chief Librarian, Liverpool Public Libraries. "Rome, the Eternal City," with lantern illustrations.
- ELLIS, JOHN W., M.B., F.E.S. "Wanderings in Wessex," with lantern illustrations.
- GINEVER, MRS. LONA. "Vienna: the court and the people," with lantern illustrations.
- HARRIS, REV. CHARLES, M.A. "England in the days of old," with lantern illustrations.
- HARRISON, J. H., Director, Sandow's School of Physical Culture. "Physical culture," with demonstrations.
- HEWSON, J. JAMES. "Charles Dickens: actor, dramatist, and the stage in his writings," with lantern illustrations.
- HIBBERT, HENRY, F.R.G.S. "Across Sweden," with lantern illustrations.

JONES, LEWIS. "Our feathered residents and visitors," with lantern illustrations.

KERMODE, J. J. "A tour through Mexico," with lantern illustrations.

McCULLAGH, REV. H. H., B.A. "Louis Spohr: composer, violinist, conductor," with instrumental and vocal selections.

MARCHANT, F. W., D.Sc., Professor of Electrotechnics, University of Liverpool. "The electric motor: its history, development, and application," with experiments and lantern illustrations.

MARTYN, REV. JAMES H. "Down Shakespeare's Avon from Naseby to Tewkesbury," with lantern illustrations.

NICHOLAS, REV. T. F., M.A., F.R.G.S. "The glories of Northern Italy," with lantern illustrations.

SAXBY, FREDERICK W. "The spider as an engineer," with lantern illustrations.

WALKER, ROBERT, F.S.A., F.R.G.S. "Japan," with lantern illustrations.

WELLS, SAMUEL, F.R.G.S., F.A.I. "Through Greece," with lantern illustrations.

WILSON, MISS MARY. "Old English ballads," with vocal illustrations.

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BENSON, CAPTAIN W. J. P., F.R.G.S. "To the Southern Pacific across the Andes," with lantern illustrations.

BURSTALL, FRED. H., F.R.C.O., Cathedral Organist, Liverpool. "Oratorios, ancient and modern," with musical illustrations.

DIBBIN, E. RIMBAULT, Curator, Walker Art Gallery, Liverpool. "The influence of Rossetti upon English art," with lantern illustrations.

FRIEND, MISS. "The native races of South Africa: their life and work," with lantern illustrations.

GINEVER, MRS. ILONA. "Life in the Balkan States," with lantern illustrations.

GLEESON, REV. JOHN, F.R.G.S. "The Russia of to-day," with lantern illustrations.

GRENSTED, REV. F. F., M.A., Diocesan Inspector of Religious Education. "Earth movements and their causes: a study of the forces which determine the distribution of earth and sea," with lantern illustrations.

HERDMAN, W. A., D.S.C., F.R.S., Professor of Natural History, University of Liverpool. "The work of the Naturalist in the world," with lantern illustrations.

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"Bohemia of to-day," by JAMES BAKER, F.R.G.S., F.R.H.S.; with lantern illustrations.

"Earthworms: their natural history and economy," by FRANK J. COLE, Lecturer on Zoology, University of Liverpool; with lantern illustrations.

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- “Vienna: the court and the people,” by MRS. ILONA GINEVER; with lantern illustrations.
- “The English lakes,” by LLEWELLYN MORGAN, M.D., with lantern illustrations.
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The following Periodicals, Newspapers, &c. have been presented regularly by the respective Publishers, &c. :—

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| Accountant | Herald of Peace |
| African Review | Herald of the Golden Age |
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| Bible Advocate | Journal of |
| Board of Trade Journal | India |
| Britain's Opium Harvest | In His Name |
| British Temperance Advocate | Insurance Agent & Insurance Review |
| Brotherhood of Locomotive Engineers' Journal | Investors' Guardian |
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| Church Family Newspaper | Liberty Review |
| Church Missionary Gleaner | Life-boat |
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| Church Monthly | Literary News |
| Church of England League Gazette | Liverpool Catholic Times |
| Civil Service Aspirant | Liverpool College Upper School Magazine |
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| Civil Service Competitor | Liverpool Diocesan Gazette |
| Civil Service Hints | Liverpool Echo |
| Clerk of Works' Association Journal | Liverpool Express |
| Commonwealth of Australia Gazette | Liverpool Freeman |
| Concord | Liverpool Institute Schools Magazine |
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| Cornish Telegraph | Liverpool Mercury (daily and weekly) |
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| Crescent | Liverpool Post (daily and weekly) |
| Daily Dispatch | Liverpool Y.M.C.A. Journal |
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| Decorators' and Painters' Magazine | Locomotive Engineers' and Firemen's Journal |
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| Electrician | Midland News |
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| Esmeduna | Moravian Missions |
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| Fire and Water | Musicians' Report and Journal |
| Food and Cookery | National Service Journal |
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| Free and Open Church Advocate | Naval Warrant Officers Journal |
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| Northern Counties Education League Magazine | Shipping World |
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| Oxford Chronicle | Stanley Gibbons Monthly Journal |
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| Paper Makers' Circular | Stationer, Printer, and Fancy Trades Register |
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| Poor Law Officers' Journal | Temperance Chronicle |
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| Present Truth | Timber Trades Journal |
| Preston Herald | Tool and Machinery Register |
| Printers' Register | Trade Marks Journal |
| Protestant Search-light | Training Ship "Mercury" Magazine |
| Public Health Engineer | Travel |
| Queensland Government Gazette | Tuberculosis |
| Queensland Government Mining Journal | Two Worlds |
| Railway Review | University Correspondent |
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THE MUSEUMS.

The Director of Museums furnishes the Fifty-second Annual Report upon the CONDUCT and PROGRESS of the Museums.

I.—GENERAL.

THE FREE PUBLIC MUSEUMS comprise:—

(A) the LORD DERBY MUSEUM, of which the nucleus was the collections bequeathed in 1851 to the City, by the Thirteenth Earl of Derby. It contains both the *Local Area* and the *Systematic* Zoological, Geological, Mineralogical, and Botanical Departments, and in addition an *Aquarium*, containing both Fresh and Salt Water Animals, Amphibians and Reptiles.

(B) the MAYER MUSEUM, the larger part of which was collected and presented to the Corporation in 1867, by Joseph Mayer, Esq., F.S.A. These collections are specially rich in (a) *Egyptian, Babylonian, and Assyrian Antiquities*; (b) *Mediæval European Ivories, Bronzes and Illuminated Manuscripts*; (c) the unrivalled *Brian-Faussett Anglo-Saxon Collection*; (d) the *Mather Miniatures*; and (e) the very important *Pottery Collections*, conspicuously rich in Wedgwood and Old Liverpool Wares, arranged now in the section devoted to the handiwork of the *Caucasian* race. Associated with this Museum, as belonging to the subjects illustrated by it, though not forming to any large extent part of the Mayer Bequest, are (f) the collections illustrating the ethnography of the *Mongolian* and *Melanian* races.

The building, in which these collections are housed, was erected at the cost of the late Sir William Brown, in October, 1860.

The Exhibition Galleries are open free to the public, as under:—

During January, November, and December ..	from 10 to 4
„ February „	10 to 4-30
„ March and October „	10 to 5
„ April to September „	10 to 6
Also on Monday <i>Evenings</i> during January to	} „ 7 to 10
March, and October to December ...}	

The Museums are closed on Sundays and Fridays (except the Fridays of Whit-, Easter- and Christmas Weeks) throughout the year, as well as on Christmas Day, and days of Public Fast and Thanksgiving.

The Museums were represented by the Director at the International Zoological Congress at Berne during August; and at the Museums Association, which met at Norwich in July, to the Council of which he was re-elected to serve till 1907.

Since 1896, a period of nine years, 55,971 specimens of Natural History and 8,005 specimens of Ethnography, totalling close upon 64,000 specimens, have been added to the collection, or on an average some what over 7,000 specimens per year.

The Director has much pleasure in testifying to the care and attention to duty given by all the members of his Staff. It is with deep regret that he has to place on record the death of Mr. F. P. Marrat, who died on the 5th of November last at the advanced age of 84 years. He had been connected with the Museums partly as an unattached assistant, and latterly as a member of the permanent Staff for 42 years. He may be said to have died in harness, for he was actively engaged upon the work he took so much interest in to within a very short time of his decease. He had a specially intimate knowledge of Mollusca and of Mineralogy, and in both groups he did much excellent work for the Museum. In the former subject he described many new species during the course of his life. The section dealing with the genus *Oliva*, in Sowerby's "Thesaurus Conchyliorum," was written by him. He was, especially in his earlier days, an active member of several scientific societies in Liverpool, and often contributed important papers at their meetings. His faculties were unimpaired to the end, and his colleagues can bear testimony to his wonderful memory and the help he was at all times ready to give in regard to the history of the collections in the Museums.

The re-arrangement of the Egyptian collections has now so far advanced towards completion that the preparation of a Guide to the Gallery has become possible. Such a hand-book, containing a short

account of the specimens, their relation to the history of the dynasty to which they belong and to contemporary specimens exhibited elsewhere, is in preparation by the Director, and he hopes to be able to record its issue in his next Report.

Dr. Philip Nelson and Mr. Samuel Smith, Junr., who have generously offered their services in the preparation of a Catalogue of the Coin Collection in the Museum, are far advanced with their work, and it is hoped that their volume will also be issued before the end of 1905.

Since the enlargement of the Museums to nearly three times their former size, no new appointments to the Scientific Staff have been made. Now the need of at least one additional assistant, with a general acquaintance with the Arthropoda, and a special knowledge of one, or perhaps more, of its Classes, is increasingly felt. Large accessions to this great group to which the Class Insecta, containing over 250,000 named species, the largest group in the animal kingdom, belongs—have accumulated during the last few years; they urgently require attention to prevent their deterioration, and setting and arrangement to render them available for study—a task which will occupy all the time of a competent zoologist for some years. The Director (in addition to his increasing administrative duties), together with his two Biological Assistants, is alone responsible for the determination, arrangement and exposition of the representatives of every group of the animal and vegetable kingdoms in the Museums, a range of subjects necessitating in the British Museum the employment of no fewer than 35 specialists.

The following very important letter by Professor Ray Lankester, F.R.S., Director of the Natural History Departments of the British Museum, on the subject of MUSEUMS AND NATURE STUDY, was, with the very kind sanction of its author, reprinted and distributed to the Head Masters and Principals of many of the schools in Liverpool and District by the Director of Museums:—

16th March, 1904.

MY DEAR SIR,—I have received a letter from the Rev. Claude Hinseliff making enquiries as to the Natural History Museum and nature study.

In the first place, I wish to say that I have the greatest sympathy with the desire to make our museums as intelligible and useful to the people as possible.

A great national museum like that in Cromwell Road is carried on with two main purposes in view:—

A. The obtaining and preservation of objects of natural history to be kept as records for all posterity, and for the purposes of scientific study and progress.

B. The exhibition of such portions of the collections as are fit for this purpose in public galleries for the “edification” of the public. The persons aimed at under this second head are not merely children or young persons undergoing courses of instruction, but every fairly intelligent member of the community. It is to me often somewhat surprising that there are a large number of benevolent persons who are anxious to arrange for the visiting of museums by children or young people and yet have never visited such museums themselves, and are, apparently, not aware that the exhibitions in the museums are meant for *their delight and instruction*, even more than that of children.

I may say that the two purposes which I have mentioned are those which have been from the first recognised by the Trustees of the British Museum, and are more or less clearly indicated in the Act of Parliament of 1753. On the other hand, the Trustees have never aimed at what may be called “academical” or “scholastic” instruction, and probably it will be recognised that they are right in this attitude.

Schools and colleges have their own small collections specially arranged in connection with class teaching. The Trustees have never proposed to supply this kind of exhibition: on the other hand, they open the galleries to all the world for the instruction and edification which they can give on every day in the year except Good Friday and Christmas Day. Any teacher may bring young or adult pupils to the museum and explain the contents of the cases to his party, but only on condition that he

or she does not cause any disturbance or inconvenience to other visitors. It would not do to have the public galleries used as a sort of free and general lecture hall for unauthorised or even for authorised lecturers. The contents of the cases are more and more carefully selected and arranged as years go by, and more and more skilfully labelled and set so as to convey information. The specimens set out are not merely such as to be pointed at and dismissed by a teacher escorting a crowd of children round the museum, but they are very beautiful and anxiously chosen things, calling for individual study and comparison by aid of the labels and guide-books which we provide.

I am not able to speak of the Trustees' views in this matter; but, personally, I should be glad to see a lecture theatre attached to the museum, as in the great Natural History Museum at New York, where lectures should be given once a week, free to the public and illustrated by lantern slides, on the contents of the museum and the way to see and study them.

But such lectures should, in my opinion, be given by the very ablest members of our staff, or by men specially selected for their great ability in exposition, and not by any volunteer teachers or school authorities unconnected with the museum. That, I say again, is merely a wish of my own, and I am not able to say whether at any time in the future the Trustees may consider it worth putting into practice.

The above remarks answer, I think, Mr. Hinscliff's inquiries Nos. 1 and 2 (see copy of Mr. Hinscliff's letter, enclosed herewith).

As to No. 3—"possibilities of lending slides and specimens"—I may say that there are no slides to lend, but that we allow anyone to take photographs for slides on application, but we do not lend specimens. We could not remove them from the cases without loss and injury and destruction of our own exhibition. But we *give away* thousands of specimens every year. Every university in the country, a great many schools and municipal museums, and also the London School Board (County Council) are on a list of institutions or persons "approved by the

Trustees " as fit to receive gifts of our duplicates. And we give, and are ready to give, to such institutions, from time to time, as duplicate specimens become available, thousands of insects, shells, bones, fishes, fossils, minerals, &c. But—and this is important—we do not undertake to send out ready-made school collections. We have not the staff for that, and it is not one of the purposes of the institution. Those who ask for and receive our specimens must know *what* they want and how to use what they get; that is to say, a really qualified teacher or curator who understands natural history must choose from our duplicates and know how to utilise what we give him.

As to the last enquiry (No. 4)—“aids from the staff available for teachers”—I must say that there is none and ought to be none. The services of the staff of educated naturalists who deal with the collections are freely given to assist not only other naturalists who are experts, but also in identifying specimens for and helping less instructed members of the public, who either write to make enquiries or visit the “studies” of the museum—the so-called private rooms—making use of a student’s ticket which is given on application, subject to certain conditions, much as a reader’s ticket is given at Bloomsbury. Teachers can avail themselves of such tickets. But the staff would not be permitted to assist a teacher in teaching in the galleries of the museum. The staff has other and very onerous duties to perform.

My own notion (I speak for myself, and not officially) is that a teacher who would require the assistance of the staff is not exactly competent. The whole place is arranged and guide-books are provided so as to render it easy for a moderately intelligent person to understand what is before him, and a teacher certainly ought to have visited the place and found out what it contains before taking others there.

It is a matter for astonishment that though the museum is very largely visited (about 440,000 persons a year: 48,000 in last January alone, as against 27,000 in January, 1903), yet there seem to be no persons who make it their business as a

matter of livelihood to conduct parties round the museum and explain its contents. There would be no interference on the part of the authorities with such "guides," so long as they did not act in a way that could annoy other visitors to the museum. On the other hand, it seems to me that teaching, in the sense of detailed instruction of a class of young people or children, should not be carried on in front of the cases in the public galleries. Such teaching should be done in the classroom of a school. The visit to the museum should be a less formal thing, full of surprises, and accompanied by recognition of this and that, but not the occasion for the teacher to go into great detail, or to require "facilities" for putting himself forward. *Well*, if I may say so, are the teachers at the natural history museum; *we* have arranged the lessons by specimens, labels, and guide-books, and it can all be taken in quietly and effectively by those to whom it is addressed if they will exercise a little trouble and attention.

I should like, as I have said above, to reduce this trouble and exaction of attention to a minimum by having a big illustrated lecture once a week, on different portions of the galleries, so as to tell people what to look at in each gallery, what is the significance of the arrangement, and the importance of the chief specimens. This could be done better and more easily by a series of recurring lectures, illustrated by lantern slides, than by guide-books or by school teachers. It is done by the guide-books, but it is the nature of visitors to a museum to refuse to read the official guide-books or the labels attached to the cases.

In conclusion, let me say that the views I have expressed are my own views, and must not be taken as committing in any way the Trustees of the museum. And, further, I must point out that, whilst I hold that the great national museum of natural history should not be looked upon or even used as a school museum, yet I think that *local* museums and *provincial* museums may very properly make the provision of special educational sets of specimens—adapted to the special requirements of school-children and their teachers a prominent feature in their organisation. Even when this is done, I think

that no school or college, however humble, should be without its own collections of natural history, and that in proportion as the school is well provided these should be well chosen and well cared for.

Lastly, I desire once again most emphatically to state my conviction that the instruction and interest offered by the collections in museums is by no means of a nature specially fitted for children's minds. I doubt very much whether children should be taken to any museum, except as a treat, and then only for a very short visit. Museums, whether metropolitan and national or local, are properly addressed to *grown-up, intelligent people*, and, whilst such people do not choose to give their time and trouble to visiting the museums and enjoying what they have to give, more harm than good will be done by dragging unwilling children through museum galleries under the guidance of wearisome "teachers." Nine-tenths, or even ninety-nine hundredths of the persons who sit on municipal and other committees concerned in the management of public museums know nothing about the contents of the museums, and never visit them themselves for pleasure or instruction. In sheer ignorance and misconception they insist on the educational value of these museums for "children."

The child who is taken by an unsympathetic teacher to a museum, and there severely taught, probably grows up with as great a distaste for museums as the older generation exhibit. There is a great deal to be said in favour of letting a museum teach impersonally, quietly, unforcibly, and unhurriedly; its impressiveness, aided by a certain mystery and charm in its unspoken appeal, its dignified silence, and its seemingly inexhaustible stores of strange and beautiful things.

I am, my dear Sir,

Yours faithfully,

(Signed) E. RAY LANKESTER,

Director.

Sir George Kekewich, K.C.B.,

President, The School Nature

Study Union.

II.—VISITORS.

During the year there has been some slight decrease in the number of visitors to the Museums, compared with that of the previous year, as shown by the averages in the following table :

		1903.	1904.
		(263 Days)	(263 Days)
Total Visitors	... ..	499,431	482,910
Weekly Average	... ..	9,604	9,286
Daily Average	... ..	1,898	1,836

The attendance of school children under the charge of teachers has been well maintained, over 1,600 children and 120 teachers having availed themselves of the clause in the Education Code, whereby time devoted to instruction in Museums reckons as school attendance. School teachers are making increased use of the Museum theatre to give special lessons to their pupils—specimens being brought from the Museum cases for illustrating them. Such a course is found to be of greater educational value than merely a general visit with no specific object. Occasional lectures and demonstrations have been given by members of the Staff, on arrangement having previously been made by the teachers with the Director.

Persons desirous of employing the Museums for the purpose of research, reference or sketching may, by application to the Director, and on giving satisfactory references, obtain tickets enabling them to enter on Fridays, when special facilities are afforded to students. Tickets were issued, as usual, during the year (chiefly) to Artists, of whom a much larger number than heretofore have availed themselves of the advantages the Museum collections afford, and to Students of Natural History, Osteology and Dental Anatomy, who have made extensive use of the collections, mainly on the days when the Museums were closed to the public. The pupils studying at the Mount Street School of Art attend in a body, regularly once a week.

The following, among others, have visited the Museums during the year for the purpose of inspecting the collections or other special object:—Dr. Storie Dixon, Sydney University; His Excellency, Sir J. P. Rodger, K.C.M.G., Governor of the Gold Coast, West

Africa; Councillor Roberts, Bradford; Rev. Leonard P. Robin, Organizing Secretary, Melanesian Mission; Mr. R. Clipston Sturgis, Architect to the Trustees of the Museum of Fine Arts, Boston, U.S.A.; Dr. W. E. Hoyle, Owens College Museum, Manchester; Professor Pfeffer, Hamburg; Miss A. B. Gallup, Curator, Children's Museum, Brooklyn, New York, U.S.A.; Mr. Raymond Koechlin, Societe des Amis du Louvre, Rue de Rivoli, Paris; Mr. Alan H. Gardiner, Edward's Library, University College, London; Mr. White, Museum, Dublin; Mr. Bromley, India; Mr. C. Melville and Mr. T. B. Hall.

III.—LECTURES.

Twenty-two lectures were delivered by members of the Staff on Monday evenings, in the Lecture Theatre of the Museums. They were illustrated by specimens from the Museums and by lantern slides. The total attendance at the lectures was 3,879, average per evening 176.

The following is a list of the subjects:—

A course of four Lectures on "Flowers of Winter," was given by Mr. W. S. Laverock, M.A. B.Sc.:—

Jan. 4th.—"Christmas Roses and Winter Aconite."

,, 11th.—"Chickweed and Purple Dead-nettle."

,, 18th.—"Ivy and Gorse."

,, 25th.—"The Daisy and the Groundsel."

A course of five Lectures on "The Native Tribes of North and South America" was given by Mr. P. Entwistle, Assistant Curator of the Mayer Museum:—

Feb. 1st and 8th.—"The Eskimos."

Feb. 29th and Mar. 7th.—"The North American Indians."

Mar. 14th.—"The South American Indians."

A course of two Lectures by Mr. W. S. Laverock, M.A., B.Sc.:—

Mar. 21st and 28th.—"The British Reptiles."

A course of four Lectures on "The Influence of Environment on the Structure of Animals," by Mr. J. A. Clubb, M.Sc., Assistant Curator of the Lord Derby Museum:—

Oct. 10th.—Introductory.

„ 17th.—"Natural Selection."

„ 24th.—"Birds that run, and animals that fly."

„ 31st.—"Dry-land Fishes and Aquatic Animals."

A course of four lectures on "Coins," by Dr. Philip Nelson:—

Nov. 7th and 14th.—"The Siege Coins of England, 1645-1648."

„ 21st.—"The Coins of the Isle of Man."

„ 28th.—"The Coins of the British Colonies in North America, prior to 1776."

A course of three lectures on "Local History and Archæology," by Mr. P. Entwistle, Assistant Curator of the Mayer Museum:—

Dec. 5th.—"The Art of the Liverpool Potter."

„ 12th.—"The Ancient Model of Liverpool."

„ 19th.—"Relics of Ancient Liverpool."

A. LORD DERBY MUSEUM.

ZOOLOGICAL DEPARTMENT.

(a) GENERAL.

Several dredging excursions have been undertaken during the year to the estuary of the Mersey and the Irish Sea, for the purpose of obtaining specimens for the Local Collection of Marine Fauna. Through the kindness of the Sanitary Sub-Committee, the City Engineer's Department gave permission for the Director to occasionally place members of the staff on board the "Beta," when on its periodic visits to the "Deposit Grounds," near the North-West Lightship. This vessel has been utilised also for the purpose of bringing fresh seawater from beyond the North-West Lightship for supplying the Aquarium. The thanks of the Committee are due to Captain Griffiths for his most willing help and

courtesy during the trips on which the officers have accompanied him, and also for so frequently bringing in objects of interest to the Museum which have fallen in his way on other occasions.

The Science Cabinets, containing properly identified and labelled specimens, on selected subjects, have been distributed to the various Elementary Schools in the City as in former years; applications have also become more numerous for specimens for object lessons (mainly Natural History), and for the series of Technical Appliances on loan from the Museums. The increase in the applications for Museum specimens has necessitated considerable additions to the loan collections. This educational feature, which has for its purpose the promotion of scientific teaching throughout the City, is being more and more appreciated. Numerous applications have been made to the Director by educational authorities, not only in England, but in America and Australia for information as to the working of the system.

In the Local Area Gallery, substantial progress has been made, during the past year, with its re-arrangement and in the mounting of specimens of the Local Fauna. Representatives of the Red and Fallow Deer, and of the Ancient Wild Cattle of Britain, are still desiderata to complete the groups of local mammals. There is some hope, however, of these being obtained and set up before next Annual Report. Five groups of the nesting birds of the district in their natural habitats, with their nests and eggs or young, were on exhibition at the close of 1903. Thirty additional groups, consisting of Jay, Starling, Magpie, Robin, Willow-Warbler, Chiffchaff, Merlin, Peregrine Falcon, Nightjar, Whitethroat, Wheatear, Ring-ouzel, Song Thrush, Missel-Thrush, Blackbird, Great Black-backed Gull, Herring Gull, Common Gull, Kittiwake, Black-headed Gull, Golden Eagle, Mallard Duck, Oyster-Catcher, Long-eared Owl, Barn Owl, Tawny Owl, group of four species of Terns with Ringed Plover, &c., have been prepared during the year dealt with in this Report. Several of the sea-bird groups have attracted large and interested crowds, many of whom, not alone those acquainted with the habits of the birds, but more especially those whose opportunities of seeing them in life are

rare, have expressed the great pleasure derived from the life-like attitudes of the species, and the accurate reproduction of their habitats. The collection of British Birds' Eggs has been arranged and placed in the open gallery, in a cabinet with glazed and "stopped" drawers, so as to be easily and conveniently consulted by visitors at all times, without application to the Staff.

The preparation of satisfactory examples of the local fishes, reptiles and amphibians, and the suitable mounting of them for exhibition in fluid or as dry preparations; dredging excursions to obtain fresh specimens of fishes with other much-desired marine forms, their preservation and fixing, or the casting of those fishes too large to place in jars, in plaster or *papier-mache*, with the necessary careful painting of the same, have occupied much of the time of the Assistant Curator, his Laboratory Assistant and the Draughtsman during the year. It is hoped that the local reptiles and fishes will be completely on exhibition before the close of 1905.

In the Upper Gallery, where the systematic collections are arranged, additions have been made from time to time to the Mammals, and about 490 representatives of the remaining genera of the non-passerine orders of Birds have been mounted and exhibited in metal cases, similar to those already in the gallery. The general labelling of the cases and of their contents has also been proceeded with as rapidly as it could be undertaken by the printer. During the year, the cases exemplifying the classification of the Reptilia and Amphibia have been completed, and considerable progress has been made in preparing specimens to illustrate that of the Fishes, and so complete the Vertebrate Section of the Animal Kingdom. The collection of fishes in the Museum consists chiefly of stuffed specimens, prepared before taxidermy became the art it now is, all of them in a very unsatisfactory state, and some of them (being 40 to 50 years old) practically useless for any Museum purpose. It will be a considerable time before a really good collection, properly preserved and mounted for exhibition, can be accumulated.

The re-arrangement of the Invertebrata has been begun: that of the mollusca now approaching completion. The shells have been

again set out in the desk cases in which they were formerly exhibited. The plan adopted in the Vertebrate groups has been followed in the arrangement of the mollusca. Examples of the main genera of each of the families have alone been placed on view, so that the classification of the group may be more easily grasped by the student without his being overburdened by a plethora of species. The bulk of the collection—one of the most complete in England—is being relegated to the study series, which will in due course be arranged in glass-covered, “stopped” drawers in the cabinets beneath the exhibited series, so as to be always accessible to the specialist, without loss of time to him and without the necessity of intruding upon the time and services of an assistant.

The Assistant in the Botanical Department made, as usual, numerous excursions during the summer into districts surrounding Liverpool, to collect specimens required to fill up gaps in the British series in the Botanical transept.

In the carpenters' shops, in addition to the ordinary repairs and fittings, twenty-six exhibition cases have been made—sixteen to accommodate British Bird groups with natural surroundings for the Local area collection, and ten pillar cases for Egyptian Antiquities in the main hall. A very large number of stands, for specimens and other fittings, have also been constructed.

(b) CONSERVATION.

All the collections on exhibition have so far as pressure on the staff has permitted been periodically examined, dusted and kept free from moth or other pest. The store cabinets and tanks, containing specimens preserved in fluid, have also been systematically gone over for the purpose of renewing the spirit or other preservative. The store cabinets have also had constant attention, the entomological collections especially requiring frequent examination.

Three additional taxidermists have been employed during part of the year on the very urgent work of reducing to flat skins (for placing in the study cabinets and for their proper conservation) the vast number of specimens, both of mammals and of birds remaining

over after the representative generic series had been selected for exhibition. Several thousands of specimens still remain awaiting their turn, and until this work has proceeded much further than at present, the two galleries which it is necessary now to use as store-rooms for them cannot be proceeded with.

(c) LOANS.

The following loans of Museum specimens for purposes of scientific investigation were made during the year:—

9 Photographic Enlargements of South African Natives, lent to Miss F. M. Wetherman, Girls' School, Park Lea, Sefton Park.

53 specimens of Larks, 26 specimens of Nuthatches (*Sitta*), and 26 specimens of *Parus*, lent to Dr. E. Hartert, Zoological Museum, Tring, Herts.

3 Circulating School Cabinets ("Shells and their uses," "Insects," and "Crustacea"), lent to Mr. Charles W. Bailey, B.A., Principal, Sefton Park School, for exhibition at the Balfour Institute.

2 Circulating School Cabinets ("Coal" 1 and 2), lent to Miss Hall, Stepney Borough Museum, Whitechapel, London.

Specimens of *Planocera pellucida* (Mertens), lent to F. F. Laidlaw, Wynnthorpe, Withington, Manchester.

Specimen of Mongoose, lent to Mr. Oldfield Thomas, British Museum, Natural History, Cromwell Road, London.

(d) PRESENTS.

Among the donations with which the Museum collections have been enriched the following deserve special mention:—

A collection of Bird Skins from Muonionska, Finland, from the collection of the late R. Meinertzhagen, Esq., presented by Mrs. Meinertzhagen, Mottisfont, Hants.

Small collections of Shells and Minerals presented by Mrs. Cookson, Bootle.

(e) EXCHANGES.

Professor Paterson, Anatomy Department, the University, received specimens of 20 Mammalian Skulls in exchange for specimens to be subsequently arranged.

(f) ACQUISITIONS.

INVERTEBRATES—**Porifera.**

Two Sponges (D. 27. 4. 04. 9) from the estuary of the Mersey collected (with other marine specimens) from s.s. "Beta" by the Assistant Curator and Laboratory Assistant.

Sponges (*Suberites domuncula*), (D. 25. 5. 04. 4 and 14), from the estuary of the Mersey: collected and presented by Captain Griffiths s.s. "Beta."

Cœlenterata.

Sea Anemones (*Metridium dianthus*, *Tralia crassicornis* and *Sagartia ornata*) (D. 9. 5. 04. 13), from the estuary of the Mersey: collected and presented by Captain Griffiths.

Colonies of *Sertularia operculata*, *S. polyzonias* and *Obelia plicata* (D. 4. 10. 04. 7. 8 and 9), and two Jelly-fishes (*Rhizostoma pulmo*) (D. 23. 9. 04. 2), from the estuary of the Mersey: collected by the Assistant Curator and Laboratory Assistant.

Echinoderms.

Fossil Echinoderm (*indet.*) (D. 2. 3. 04. 1), from Winchester, Hampshire: collected and presented by Master C. T. Cleaver, 10-12, Hayman's Green, West Derby.

Rosy-feather Star (*Antedon bipida*), Sea-urchin (*Echinus miliaris*) and Heart-urchin (*Spatangus purpureus*) (D. 9. 5. 04. 8-10), from the estuary of the Mersey: collected and presented by Captain Griffiths, s.s. "Beta."

Echinoderm (D. 27. 4. 04. 8), twenty-five Star-fishes (*Ophiura albida* and *Astropecten irregularis*), and twenty Echinoids (*Echinocardium cordatum*) (D. 23. 9. 04. 5-6), from the estuary of the Mersey: collected by trawl from s.s. "Beta" by the Assistant Curator and Laboratory Assistant.

Vermes.

Twenty-three Annelids (*Aphrodite aculeata* and *Pectinaria belgica*) (D. 27. 4. 04. 10, D. 23. 9. 04. 7 and D. 4. 10. 04. 1), from the estuary of the Mersey; collected by trawl from s.s. "Beta" by the Assistant Curator and Laboratory Assistant.

Three Annelids (*Aphrodite aculeata* and *indet.*) (D. 9. 5. 04. 11-12) (D. 25. 5. 04. 1), from the estuary of the Mersey; collected and presented by Captain Griffiths.

Arthropoda.

Crustacea.

Crab (*Corystes cassivelaunus*) (D. 14. 3. 04. 1), from Llanddwyn Bay, Anglesea; collected and presented by T. Coward, Esq., "Brentwood," Bowdon, Cheshire.

Four Swimming Crabs (*Portunus depurator*), three Shrimps (*Crangon vulgaris*) (D. 25. 4. 04. 1-2), six Crustaceans (*Eupagurus bernhardus*), (*Pandalus annulicornis* and *Hyas coarctatus*) (D. 27. 4. 04. 4-6), a Shell-fish (*Trochus dorynchus*) (D. 27. 4. 04. 7), a number of Amphipods (*Gammarus locusta*), one Isopod (*Idotea linearis*), one Crab (*Portunus variegatus*) (D. 28. 6. 04. 1-3), one Amphipod (*Hyperia galba*) (D. 23. 9. 04. 1), and seven Crustaceans (1 *Stenorhynchus tenuirostris*) and six Amphipods (*Caprella linearis*) (D. 4. 10. 04. 4-5), from the estuary of the Mersey; collected by the Assistant Curator and the Laboratory Assistant.

Fifteen Crustaceans (*Hyas coarctatus*), (*Pandalus brevirostris*), (*Palaemon serratus*), (D. 9. 5. 04. 5-7) and four Masked Crabs (*Corystes cassivelaunus*) (D. 7. 6. 04. 2), from the estuary of the Mersey; collected and presented by Captain Griffiths, s.s. "Beta."

Crustacean (*Munidopsis polymorpha*) (D. 28. 5. 04. 1), from the Island of Lanzarote, Canary Islands; collected by Mr. G. F. Prevost, presented by Rev. Charles Yeld, Grassendale Vicarage, Liverpool.

Tracheata.

Four Larvæ (*indet.*), four Beetles (*indet.*), and a Millepede and Centipede (*app. indet.*) (D. 2. 4. 04. 1-2, D. 2. 7. 04. 1, 2 and 3,

D. 2. 8. 04. 1, D. 3. 8. 04. 1, and D. 5. 9. 04. 1-2), from timber at the Liverpool Docks; collected and presented by Mr. W. Swan, 10, Viola Street, Bootle.

Locust (*indet.*) (D. 26. 5. 04. 1); collected and presented by Mr. George Burrough, 103, Leopold Road, Liverpool.

British Beetle (*Necrophorus vespillo*) (D. 18. 8. 04. 1); presented by Mr. Thomas N. Latham.

Beetle (*indet.*) (D. 15. 6. 04. 1); purchased.

Sawfly (*Sirex gigas*) (D. 30. 7. 04. 1); collected and presented by Mr. John Roberts, Bank House, Menai Bridge.

Insect (*Belostoma grande*) (D. 16. 4. 04. 2) from La Guira; collected and presented by Mr. W. S. McMillan, Esq., Maghull.

Two Congregating Moths (*Anaphe infracta*) and two Cocoons of same moth (D. 15. 8. 04. 1-2), and Beetle (*indet.*) (D. 6. 9. 04. 1); presented by Mr. James A. Weale, Boundary Place, Liverpool.

Centipede (*indet.*) (D. 27. 10. 04. 1); presented by Mr. Richard Chamberlain.

Three Beetles (*indet.*) (D. 15. 11. 04. 1-2), from Koko Town and Sepele, Benin, W. Africa. collected and presented by Mr. A. Ridyard, s.s. "Nyanga."

Specimen of Bee's Wax (D. 15. 11. 04. 3), from a Kwitta village, Gold Coast, W. Africa; collected and presented by Mr. Johnson A. Active, Jellah Coffee, per Mr. A. Ridyard, s.s. "Nyanga."

Mollusca.

Twenty-six Molluscs (*Sepiola atlantica*, *Rossia macrosoma*, *Lobigo media*, *Pecten opercularis* (shell and animal) (D. 9. 5. 04. 1), *Loligo media*, *Eledone cirrhosus*, *Eolis papillosa*, *Doto fragilis* (D. 11. 5. 04. 1-4), *Doto fragilis* (D. 25. 5. 04. 2), *Loligo media* (D. 7. 6. 04. 1), *Sepiola atlantica* (D. 7. 9. 04. 1), *Loligo vulgaris* (D. 27. 9. 04. 1), from the estuary of the Mersey; collected and presented by Captain Griffiths, s.s. "Beta."

Seventy-five Molluscs (*Pecten opercularis*, *Natica monilifera* and *Fusus antiquus* (D. 27. 4. 04. 1), (*Syndosmya alba*, *Macra stultorum*, *Nucleus nucleus* and *Cardium echinatum* shells and animals (D. 23. 9. 04. 8), *Pecten opercularis*, shell and animal and *Loligo media* (D. 4. 10. 04. 1-2), from the estuary of the Mersey; collected by trawl from s.s. "Beta" by the Assistant Curator and Laboratory Assistant.

Two Shells (*indet.*) (D. 16. 4. 04. 1), from the Bay of St. Lucia; collected and presented by W. S. McMillan, Esq., Maghull.

Shell (*Cyprea lentiginosa*) (D. 19. 8. 04. 1), from Dabai, Persian Gulf; collected by Mr. T. W. Townshend and presented by Mr. J. C. Melville, Manchester.

Collection of Shells (D. 20. 6. 04. 1, etc.), from various localities, consisting of upwards of 150 specimens: presented by Mrs. Cookson, 208, Marsh Lane, Bootle.

Tunicata.

Two Ascidians (*indet.*) (D. 25. 5. 04. 1), from the estuary of the Mersey; collected and presented by Captain Griffiths, s.s. "Beta."

Compound Ascidian (*indet.*) (D. 4. 10. 04. 3), from the estuary of the Mersey; collected (with other marine material) by trawl from s.s. "Beta" by the Assistant Curator and Laboratory Assistant.

VERTEBRATES—

Fishes.

White Bream (*Abramis blicca*) (C. 30. 1. 04. 1), from the River Alyn, Rossett, N. Wales; collected and presented by Mr. Fothergill, City Angling Club.

Trumpet Fish (*Centriscus scolopax*) (C. 6. 3. 04. 1) probably from the coast of Cornwall; presented by Mr. H. J. Barker, 54, Russian Drive, Stonycroft.

Three Lesser Weevers (*Trachinus vipera*), two Gobies (*Gobius minutus*) (C. 25. 4. 04. 1-2), two Dragonets (*Callionymus lyra*) ♂ and ♀, three Gobies (*Gobius minutus*), and two Sea Snails (*Liparis vulgaris*) (C. 27. 4. 04. 1-3), two Rays (*Raia batis*), one Ray (*Raia maculata*), and one Dab (*Pleuronectes limanda*) (C. 28. 6. 04. 1-3), four Gurnards

(*Trigla gurnardus*), one Scald Fish (*Arnoglossus laterna*), two Pipe Fish (*Sygnathus acus*) (C. 4. 10. 04. 1-3) (C. 23. 9. 04. 1), from the estuary of the Mersey; trawled from s.s. "Beta" by the Assistant Curator and Laboratory Assistant.

One Spotted Dragonet (*Callionymus maculatus*), three Butter Fishes (*Centronotus gunnellus*), one Pogge (*Agonus cataphractus*), three Solenettes (*Solea lutea*), one Scald Fish (*Arnoglossus laterna*), four Lemon Dabs (*Pleuronectes microcephalus*), two Sea Snails (*Liparis vulgaris*), three Montagu's Suckers (*Liparis montagu*), three Five-bearded Rocklings (*Onus mustela*), and the Megrin juv. (*Lepidorhombus megalostoma*) (C. 9. 5. 04. 1-10), from the estuary of the Mersey: trawled from s.s. "Beta" and presented by Captain Griffiths.

Mediterranean or Six-gilled Shark (*Notidanus griseus*) (C. 30. 5. 04. 1), captured off the Blasquetts, S.W. Coast of Ireland: presented by Messrs. Harley & Miller, St. John's Market, Liverpool.

Lesser Spotted Dog-fish (*Scyllium canicula*) ♂ (C. 10. 6. 04. 1), from the estuary of the Mersey; collected and presented by Captain Griffiths, s.s. "Beta."

Tope (*Galeus vulgaris*) (C. 15. 6. 04. 1), from Carnarvon Bay: purchased.

Pike (*Esox lucius*), painted cast (C. 18. 12. 04. 1); purchased.

Amphibia.

Two European Salamanders (*S. maculosa*) (C. 5. 3. 04. 1), brought from store rooms and now referred to this date.

One Newt, one Toad (*Bufo vulgaris*), and a Salamander (*Salamandra maculosa*) (C. 17. 12. 04. 1): presented by Dr. H. O'Connell, 2, Dudley Road, Sefton Park, Liverpool.

Reptiles.

Chamæleon (*Chamæleon basiliscus*) (B. 3. 3. 04. 1), from Alexandria: presented by Mr. J. H. Evans, 35, Exe Street, Beaumont Street, Liverpool.

Tortoise (*indet.*) (B. 5. 5. 04. 1), from Jellah Coffee, West Africa; presented by Mr. Thomas Agbiffah, per Mr. A. Ridyard.

Various Snakes in preservative fluid (*indet.*) (B. 25. 5. 04. 1, etc.); presented by Mr. George Burrough, 103, Leopold Road, Liverpool.

Four Lizards (*Seps tridactyle*, *Uromastix hardwicki*, *Algeroides nigripunctata*), five Viviparous Lizards (*Zootoca vivipara*), two Limbless Lizards (*Anguis fragilis*), one Chamæleon (*Chamæleon ventralis*), two Terrapins (*Clemmys caspica* and *Chrysemys picta*) and one Tortoise (*Emys orbicularis*) (B. 17. 12. 04. 1-9), from Southern Europe, North America and India; presented by Dr. J. H. O'Connell, 2, Dudley Road, Sefton Park, Liverpool.

Birds.

One Diver (*Colymbus septentrionalis*) ♀ (B. 6. 2. 04. 1) from the estuary of the Mersey; collected and presented by Captain Archibald.

Two Albatrosses (*Diomedea exulans*, Linn.) stuffed, (B. 22. 2. 04. 1); presented by Mrs. Edgar, 20, Ashbourne Road, Aigburth Road, Liverpool.

Sparrow Hawk (*Accipiter nisus*) (B. 11. 3. 04. 1), Raven (*Corvus corax*) (B. 7. 4. 04. 1), and Merlin (*Falco aesalon*) (B. 8. 10. 04. 1), from Workington; presented by George Dickinson, Esq., 10, Water Street.

Starling (*Sturnus vulgaris*) (B. 22. 4. 04. 1), from Pwllheli, one of a series from a migratory flight, killed on the cliffs; presented by Mr. W. P. Owen, 57, High Street, Pwllheli.

Blue Mountain Lory (*Trichoglossus novæ hollandiæ*) (B. 18. 5. 04. 1), Golden Pheasant (*Thaumalea picta*, Linn.) (B. 7. 9. 04. 1), Nicobar Pigeon (*Caloenas nicobarica*, Linn.) (B. 23. 11. 04. 1), from the Aviaries, Sefton Park, and a Raven (*Corvus corax*) (B. 20. 9. 04. 1), from the Aviaries, Newsham Park; presented by the Parks and Gardens Committee, per the Superintendent.

Blackcock (*Tetrao tetrix*, Linn.), ♀, with abnormal tail (B. 10. 6. 04. 1) and an Amherst Pheasant (*Thaumalea amherstiae*, Leadb.), ♂, (B. 18. 12. 04. 1); presented by R. D. Holt, Esq., C.C.

Four Hawfinches (*Coccothraustes vulgaris*), ♂ and ♀ imm. and ♂ ad. (B. 27. 6. 04. 1-2); purchased.

Swift (*Cypselus apus*) (B. 2. 8. 04. 1), from Broad Green; presented by the late Mr. F. P. Marraŧ.

Three Noddy Terns (*Anous stolidus*) (B. 15. 8. 04. 1), from Akassa, Southern Nigeria; presented by Mr. A. Ridyard, s.s. "Nyariga."

Two Snow Buntings (*Plectrophanes nivalis*), ♂ and ♀, (B. 29. 8. 04. 1); purchased.

Goldfinch (*Carduelis elegans*) (B. 6. 9. 04. 1); purchased.

Albino Merlin (*Falco aesalon*) (B. 12. 9. 04. 1), from Darwen purchased.

Collection of Bird Skins, consisting of 111 specimens representing 64 genera and 70 species (B. 13. 10. 04. 1, et seq.) from Muonioniska, Finland, and other localities: from the collection of the late R. Meinertzhagen, Esq., presented by Mrs. Meinertzhagen, Mottisfont, Hants.

Three Photographs (platinotype prints) of nests and young of Blackbird, Gannet and Lesser Black-backed Gull (B. 14. 10. 04. 1); presented by Mr. R. Welch, Belfast.

Long-eared Owl (*Asio otus*), ♂, (B. 19. 12. 04. 1); purchased.

Hawfinch (*Coccothraustes vulgaris*) (B. 29. 12. 04. 1); presented.

Ten Skulls of Birds (B. 30. 12. 04. 1, etc.); presented by Miss Tuckwell, 5, Grange Mount, Heswall.

Mammals.

Carcase of Monkey (*Colobus sp.*) (A. 11. 4. 04. 1), from West Africa; presented by Mr. W. Seward, Manchester Street, Liverpool.

Civet Cat (*Viverra civetta*) (A. 5. 5. 04. 1), from Jellah Coffee, West Africa; presented by Mr. John Koblavie, per Mr. A. Ridyard.

Skin and skull of Kinkajou (*Cercoleptes caudicollis*) (A. 11. 5. 04. 1); received in exchange.

Set of Miniature Horns of the female Caribou (*Rangifer tarandus*) (A. 2. 6. 04. 1), from North America; presented by Mr. N. S. McMillan, 4, Galloway Road, Waterloo.

Stoat (*Mustela erminea*), white var. (A. 30. 6. 04. 1); purchased.

Three Human Skulls (incomplete) (A. 2. 7. 04. 1), from New Guinea; purchased.

Two Seals (*Phoca vitulina*) (A. 12. 8. 04. 1), captured at Dundee; purchased.

Pair of Horns of the "Bush Cow" (A. 15. 8. 04. 1), from Sierra Leone, West Africa; presented by A. Buckle, Esq., J.P., Carlton House, Pultney Street, Sierra Leone, per Mr. A. Ridyard.

Skin of Pangolin (*Manis sp.*) (A. 15. 8. 04. 2), from Benin, presented by J. Eadon Raney, Esq., Miller Bros. & Co., Benin, Southern Nigeria, per Mr. A. Ridyard.

Two Scotch Hares (*Lepus timidus*), ♂ and ♀ (A. 16. 8. 04. 1); purchased.

Hare (*Lepus europæus*), albino (A. 11. 10. 04.), from Warrington; presented by Mr. Comberbach.

Skin of small Mammal (*Arvicola sp.*) (A. 13. 10. 04. 1), from Muonioniska, Finland; from the collection of the late R. Meinertzhagen, Esq., presented by Mrs. Meinertzhagen, Mottisfont, Hants.

Bat (*Myotis natterii*) (A. 15. 10. 04. 1), from Barnsley, Yorkshire; presented by Mr. F. A. Coward, "Brentwood," Bowdon, Cheshire.

Skull of Great fossil Aurochs (*Bison prisceus*) (A. 29. 10. 04. 1), found without register number, from Siberia, and presented by Mr. St. George Littledale in 1899. Now registered under this date.

Fragment of Skull of an ungulate (*indet.*) with horns (A. 15. 11. 04. 1), from Lome, Togoland, West Africa, and Skin of Anubis Baboon (*Papio anubis*), incomplete (A. 15. 11. 04. 2), from Baywe, Kwitta, West Africa; presented by Chief James Oeloo, Kwitta, Gold Coast, per Mr. A. Ridyard.

Skin of Daubenton's Bat (*Myotis daubentoni*) (A. 24. 12. 04. 1), from Teddington; presented by Mr. A. H. Bishop.

Water Chevrotain (*Hyomoschus aquaticus*), imm. ♀ (A.27.12.04.1); purchased.

Four Skulls of domestic mammals (A. 28. 12. 04. 1-4); presented by Miss Tuckwell, 5, Grange Mount, Heswall, Cheshire.

BOTANICAL DEPARTMENT.

The acquisitions in this department are as follows:—

Collection of botanical specimens—part of the Herbarium of the late Robert Brown (E. 20. 1. 1904. 1, &c.); presented by his son, Mr. R. D. Brown, 33, Peel Street, Liverpool.

Large specimen of *Lunaria biennis* (E. 22. 1. 1904. 1); grown and presented by Mrs. Middleton, Rowliffe Station, Yorkshire, R.S.O.

Small clump of *Saxifraga tridactylites*, with insects, &c., adhering to leaves, from Kirkby Lonsdale (E. 14. 5. 1904. 1); collected and presented by Rev. T. S. Lea, Kirkby Lonsdale.

Puffball (*Lycoperdon giganteum* ?) (E. 7. 5. 1904. 1); brought from the taxidermist's department, and now registered under this date.

Piece of Ambatch from the Blue Nile forming the "Sudd," piece of "Cheese wood" from Colombia, South America (E. 13. 5. 1904. 1 and 2), and a piece of wood from Lagos, West Coast of Africa (E. 25. 6. 1904. 1); presented by James A. Weale, Esq., Boundary Place, Liverpool.

About five hundred and eighty specimens of plants, &c., representing 192 species, from various localities (E. 4. 6. 1904. 1-12, 9. 6. 1904. 1-11, 16. 6. 1904. 1-19, 23. 6. 1904. 1-18, 28. 6. 1904. 1-13, 27. 7. 1904. 1-9, 12. 8. 1904. 1-19, 20. 8. 1904. 1-20, 25. 8. 1904. 1-25, 10. 9. 1904. 1-16, 15. 9. 1904. 1-11, 23. 9. 1904. 1-8); collected for the British Herbarium by the Assistant in the Lord Derby Museum.

Small collection of dried plants and ferns (E. 15. 7. 1904. 2, &c.); presented by Mrs. Cookson, 280, Marsh Lane, Bootle.

Photograph of a Mango Tree (E. 15. 7. 1904. 1); purchased.

Mesembryanthemum (*indet.*), in flower, from Cornwall (E. 18. 7. 1904. 1); presented by Alderman Stolterfoht.

Four pieces of stem of a *Dicotyledon* (*indet.*) (E. 2. 8. 1904. 1); purchased.

Leaf of "Okay" or Potash tree, from between Prohensi Creek and Fishtown, Benin River (E. 24. 9. 1904. 1); presented by Mr. A. Ridyard, S.S. Nyanga.

Three specimens of *Statice limonium*, from the neighbourhood of Bromborough Pool (E. 29. 9. 1904. 1); collected with material for the taxidermist's work by the Taxidermist.

Small collection of plants, consisting of twenty-seven specimens, representing fifteen species, from various localities (E. 5. 10. 1904. 1-15); presented by Mr. G. V. C. Last, 78, Tithebarn Street, Liverpool.

MINERAL AND GEOLOGICAL DEPARTMENT.

The following are the acquisitions in this department:—

Piece of Coal with vein of peculiar structure, from coal in Museum yard (F. 11. 3. 1904. 1).

Piece and three small chips of Jasper, "from the silicified forest of Arizona, U.S.A." (F. 2. 6. 1904. 1); collected and presented by the Rev. William Bramley-Moore, M.A., 26, Russell Square, London, W.C.

Collection of Minerals, including some gems and agates (F. 15. 7. 1904. 1, &c.); purchased.

Small collection of Minerals (F. 15. 7. 1904. 2, &c.); presented by Mrs. Cookson, 280, Marsh Lane, Bootle.

THE AQUARIUM.

The Aquarium continues, as heretofore, to be one of the chief attractions of the Museum.

The extension, sanctioned last year, of the Aquarium into the saloon formerly containing the North American Ethnography, now

approaching completion, will add largely to the attractions of the Museums, and is certain to give pleasure to Nature students. The new tanks are 11 in number, and of large dimensions.

Four are to be devoted to marine, and seven to fresh-water inhabitants. Of the latter four will be at the normal temperature, while three will be capable (if so required) of being supplied with water of a warmth suitable for the reception of species from tropical latitudes.

The efforts made to keep the tropical African Fishes in a healthy condition continue to be successful, and the great interest taken in them both by specialists and the ordinary visitor is marked.

The Trout tanks continue to flourish, and a hatch of Rainbow Trout was obtained by crossing with the specimens presented by Mr. Lyon Whittle, Town Clerk of Warrington, last year. As the fish from the various hatches increase in size, they become too large for the accommodation available and a number of specimens of Rainbow Trout are presented each year either to the Parks and Gardens Committee for distribution in the Park lakes, to the City Angling Association or to local pisciculturists.

Captain Griffiths, of the Corporation Barge "Beta," has continued throughout the year to bring living specimens of Marine Fishes for the tanks; and on the several occasions when the Assistant Curator has been out on the "Beta" trawling for marine specimens for the British collections, the opportunity has been taken of bringing in suitable specimens alive for the tanks.

The following species have been exhibited alive during the year, those with an asterisk being alive at the date of this report (new labels, with coloured drawings of the species living in the tanks have been affixed above certain tanks):—

Fresh Water Hydræ (*Hydra viridis* and *H. fusca*): Sea-Anemones, The Crass* (*Tealia crassicornis*): * *Sagartia ornata*; Plumose Anemone (**Metridium dianthus*); Beadlet (*Actinia equina*): Ringed Deeplet (*Boloceras eques*); Various Starfishes; Horse Leech* (*Hæmopsis*

rorax): Sea-Mouse (*Aphrodite aculeata*); Fresh-Water Polyzoa* (*Plumatella repens*, *Lophopus crystallinus*): Edible Crab* (*Cancer pagurus*); Common Shore Crab* (*Carcinus maenas*); Hermit Crab (*Eupagurus bernhardus*); Spider Crabs (*Stenorhynchus rostratus* and *Inachus dorsettensis*): Slender Spider Crab (*Stenorhynchus tenuirostris*): Cleanser Swimming Crab (*Portunus depurator*): Shrimp* (*Crangon vulgaris*): Prawn (*Pandalus annulicornis*); * *Palæmonetes varians*: Beetle (*sp. indet.*): Millipede (*sp. indet.*): Centipede (*sp. indet.*): Water Spider: Pecten (*P. opercularis*); Cockle (*Cardium aculeatum*); Water Snail (*Limnæus stagnalis*); Cuttlefishes (*Sepiola atlantica*) and (*Eledone cirrhosus*); Pipe Fish (*Syngnathus acus*); Three-bearded Rockling (*Motella tricirrhatta*): Angler Fish (*Lophius piscatorius*); Lesser Weever (*Trachinus vipera*): Fresh Water Eel* (*Anguilla vulgaris*): Loch Leven Trout* (*Salmo levenensis*); Rainbow Trout* (*Salmo iridens*); Crucian Carp* (*C. carassius*): Common and Mirror Carp* (*Cyprinus carpio*); Rudd* (*Leuciscus erythrophthalmus*): Three spined Stickleback* (*Gastrostæus aculeatus*): Nine spined Stickleback* (*Gastrostæus pungitius*); Minnow*; Bream*: Butter Fish (*Centronotus gunellus*): Dace* (*Leuciscus leuciscus*): Fresh Water Gudgeon* (*Gobio fluvialis*); Tench* (*Tinca vulgaris*); Roach* (*Leuciscus rutilus*); Pike* (*Esox lucius*); Perch* (*Perca fluvialis*); Central American Fresh-water Fish (*Heros facetus*); African Mud-fish* (*Protopterus annectens*); Walking Fish* (*Periophthalmus koelreuteri*); Spotted Goby (*Gobius minutus*); Sole* (*Solea vulgaris*); Sand Lance (*Ammodytes lanceolatus*); Conger Eel (*Conger vulgaris*); Dragonet or Skulpin (*Callionymus lyra*); Spotted Dragonet (*Callionymus maculatus*); Pogge (*Agonus cataphractus*); Gurnard (*Trigla gurnardus*); Plaice* (*Pleuronectes platessa* and *Pleuronectes microcephalus*); various species of Skate* (*Raia*); Large Spotted Dog-Fish (*Scyllium canicula*); Common Frog* and Tadpoles (*Rana temporaria*); Natterjack Toad (*Bufo calamita*); Common Toad (*Bufo vulgaris*); Italian Toad* (*Bufo vulgaris*); Crested or Great Water Newt* (*Triton cristatus*); Common or Smooth Newt* (*Molge vulgaris*); Gecko (*sp. indet.*); Chamæleon (*Chamæleon basiliscus*); Alligator Terrapin* (*Chelydra serpentina*); Terrapin: West African Tortoise* (*sp. indet.*); Sternothera* (*Sternotherus niger*); West African Crocodile* (*Osteolaemus tetraspis*) and Egyptian Crocodile (*Crocodilus niloticus*); Civet Cat (*Viverra civetta*).

SUMMARY OF ACQUISITIONS.

Zoological.

Porifera	...	...	3	Species	...	...	4	Specimens.
Cœlenterata	...	...	8	"	...	...	20	"
Echinodermata	...	...	9	"	...	...	50	"
Vermes	...	...	4	"	...	...	25	"
Arthropoda (Crustacea)	...	...	18	"	...	...	60	"
Arthropoda (Tracheata)	...	...	20	"	...	...	25	"
Mollusca	...	...	71	"	...	...	250	"
Tunicata	...	...	5	"	...	...	5	"
Fishes	...	...	25	"	...	...	53	"
Amphibians	...	...	4	"	...	...	4	"
Reptiles	...	...	30	"	...	...	20	"
Birds	100	"	150	"
Mammals	20	"	27	"
			317				693	

Botanical.

Plants	250	Species	579	Specimens.
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Geological and Mineralogical.

Rocks and Minerals	500	Specimens.
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Total additions to the Lord Derby Museum.

Species	567	Specimens	1,772	
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B.—MAYER MUSEUM.

(a) GENERAL.

The following is the arrangement of the galleries in this Museum: In the upper floor illustrations of the history, art and craft of the various families of the Mongolian Race; on the ground floor, together with the Main Hall and its balcony, those of the Caucasians, and in the basement those of the Melanian peoples.

In accordance with the scheme of re-arrangement all objects illustrating local history and archaeology have been placed on exhibition in the first two rooms of the Local Area Gallery of the Lord Derby Museum.

The general effect of the addition of new ceiling lights in, and the re-painting of, the Main Hall and its balcony in lighter colours, during the past year, has been to vastly improve the diffusion of the light, and to render bright and attractive what was long a sombre and unattractive hall. The substitution of "Nernst" for the old type of incandescent electric lamps has also very greatly improved the lighting in this section of the Museum during the winter.

The Egyptian collections are now, as to the larger specimens, displayed in the wall cases chronologically in a continuous series, ranging in time from the Prehistoric Period to the Christian Era. Difficulty was found in suitably exhibiting the medium-sized Antiquities in the same cases; this has been overcome by the building of twelve shallow, elegant, pilaster cabinets, $7\frac{1}{2}$ feet in height, which now allow of the objects exhibited in them being seen to the fullest advantage, and in close proximity to the larger specimens of the same dynasty. It is hoped soon to add in the same way a series of shallow frames to receive the large number of textiles and flat objects still unexhibited.

The arrangement of the *Mongolian* section on the first floor has been completed as far as cases permit. The majority of the specimens have been labelled.

A most interesting collection of Chinese Porcelain of the 17th and 18th centuries, decorated after the Japanese manner, has been generously lent to the Museum by Mr. John Mellor, Junr.

A donation also of especial interest is the very large earthenware water-vessel from the Ucayali, a tributary of the Upper Amazon River, presented by Mr. Alfred A. Booth, of Liverpool.

The *Melanian* department continues to receive numerous acquisitions from all parts of Africa, many being of particular

interest; as in previous years, the Mayer Museum is indebted to Mr. A. Ridyard, Chief Engineer in the service of Elder, Dempster and Co., who has been most assiduous in collecting. Through the kind offices of Mr. A. A. Whitehouse, Eastern Divisional Commissioner, S. Nigeria, the collection has been enriched by the addition of a large group of Fetish figures and carved wood head-ornaments worn in the dance, obtained during punitive expeditions in the Ijoh country, S. Nigeria. The majority of the specimens in this department have now been supplied with printed labels.

On two occasions, by permission of the Committee, exhibits of Napoleonic miniatures, medals, &c., ivories, Saxon antiquities, &c., have been lent to the Lord Mayor to display at his "at homes," and on the occasion of the King's visit to lay the foundation stone of the Cathedral, for the inspection of Her Majesty the Queen.

Many photographs have been taken of Ethnographical objects, pottery, and ivories, &c., to illustrate various publications and for study and comparison, as follows:—

Tahitian objects, for a forthcoming publication by Mr. H. Ling Roth.

Ancient Egyptian Sepulchral Stelæ and Hieratic Papyrus, to Mr. Alan H. Gardner.

Staffordshire Tyg, dated 1612; Slip-ware Bowl; Liverpool Delft-ware Bowls and Tiles; Turner ware Stone Jug, Sauce-boat, and Bulb-pot; Leeds ware perforated Basket; and a figure of "Jupiter" by Dwight, illustrated in W. Burton's "English Earthenware and Stoneware."

A selection of Gothic Ivories were photographed by Mr. Raymond Koechlin, Secretary of the Societé des Amis du Louvre, Paris, for study.

(b) LOANS AND DEPOSITS.

Collection of Chinese Porcelain, decorated after the Japanese style, 17th and 18th centuries: deposited by Mr. John Mellor, Junr., June 24th, 1904.

(1) A Treatise on Moral Philosophy, Italian, 13th century ($\frac{12,048}{M}$); (2) History of the World, Sacred and Profane, Italian, 13th century ($\frac{M}{12,107}$), and (3) Selections from the Fathers, SS. Augustine, Gregory, Anselm, &c., English, 14th century ($\frac{M}{12,036}$), were lent to Mr. Sampson, June 29th, 1903.

(c) EXCHANGES.

Lid of a Tureen with blue printed illustration of the "House of Correction, near Kirkdale, Liverpool" (3. 5. 1904. 1), and print of same subject (3. 5. 1904. 2); received in exchange for a duplicate Liverpool-printed tile (9. 12. 80. 10).

(d) ACQUISITIONS.

(1.) GENERAL.

Cast of a Runic stone Monument (11. 3. 1904. 4) from the original found at Upton; presented by Mr. F. S. C. Webster.

A miscellaneous collection of coins, medallions, medals, &c., in all conditions and materials, from early Roman times to recent date (6. 5. 1904. 1-385), five publications on coins (6. 5. 1904. 387-391), and a model of a hand in bronze (6. 5. 1904. 386); bequeathed by Mrs. Grosvenor Stopford, 73, Onslow Square, London.

Four water-colour sketches of "Shaw's Brow," by W. Herdman, Junr., 1860; View of Liverpool, about 1670, by W. Herdman; "The Fall-wall Well," Lime Street, by W. Herdman, 1884, and the "Herculaneum Potteries," by E. Beattie; purchased.

"Bill of Mortality for the Town and Parish of Liverpool," 1801-1802 (5. 11. 1904. 1); presented by Mr. J. H. Shufflebotham.

Examples of various railway chairs and rails; presented by Mr. Clement E. Stretton.

(2.) CERAMICS.

Pottery pipe (10. 6. 1904. 51); presented by Mrs. Cookson.

Cream-coloured mug (10. 6. 1904. 52), printed with "An East view of Liverpool Light-house and signals on Bidston Hill"; purchased.

(3.) ETHNOGRAPHY.

PRE-HISTORIC:—

Flint arrow-head (1. 11. 04. 1), found at Morecambe, 1902; purchased.

MELANIAN RACE.

Africa.—West and South-west Africa:—

List of specimens collected and presented by Mr. A. Ridyard, Chief Engineer in the service of Messrs. Elder, Dempster & Co.:—

Earthenware vessels (4. 2. 1904. 8-11), earthenware bowls (4. 2. 1904. 12-13), carved gourd (4. 2. 1904. 14), carved gourd ladles (4. 2. 1904. 15-16), earthenware vessels of various forms (5. 5. 1904. 1-6), from Bissao; earthenware vessel with handle (4. 2. 1904. 4), from Bolamo; baskets of various sizes and designs (5. 5. 1904. 7-10) (15. 11. 1904. 1-5), from Port Lokko; earthenware vessel with handle (4. 2. 1904. 4), from Bolamo; gourd ladle (4. 2. 1904. 7) and hat (5. 5. 1904. 11) made of plaited and dyed grass, Mendi country, Shebro; various roots (4. 2. 1904. 50-60) (15. 11. 1904. 32), "Boboshay," "Egirra," "Shaygirra," "Finger," "Spice," "Yirri," "Alum," "Coomback," "Bangba," "Bubi-water," &c., from Sierra Leone.

Liberia:—

Pair of nut rattles worn in the dance (5. 5. 1904. 12), Grand Sisters; country-box made of deer skin (4. 2. 1904. 1), from Paraboo; musical instrument (4. 2. 1904. 2), from Wabo, near Cape Palmas; native horn (4. 2. 1904. 5), from Yirra Robert, near Cape Palmas; enema (4. 2. 1904. 21), Cape Palmas

French Ivory Coast:—

Earthenware fetish (?) figure seated on a stool and painted black (4. 2. 1904. 6), Kinjaboe, near Assinee.

South Nigeria:—

Earthenware bowl (4. 2. 1904. 17), earthenware water-bottle (4. 2. 1904. 18), from Azumini, Ebo country; whip, used for flogging (4. 2. 1904. 19), from Aquetá, Ebo country; painted wooden mask (4. 2. 1904. 20), Qua country; earthenware water vessel (5. 5. 1904. 13) and two large earthenware vessels, varnished (5. 5. 1904. 14-15), Essene, Opobo; drum (5. 5. 1904. 16), Savogrika, Ejoli country; native brush (5. 5. 1904. 17), Opobo; wooden mask in form of a goat's head (5. 5. 1904. 18), wooden mask in form of a human head (5. 5. 1904. 19), from Qua Ebo; two hide fans (5. 5. 1904. 11-12), Sobo country; earthenware vessels of various forms and sizes (5. 5. 1904. 13-18), Koko Town, Benin; appliances for the manufacture of salt—Leaves of the Okay tree, ashes from the burnt leaves, brine, salt (5. 5. 1904. 19-24), from Koko Town, Benin; earthenware vessels, burnt and unburnt (5. 5. 1904. 25-26), Koko Town, Benin; bronze figure of a bird (15. 11. 1904. 18), Benin; two carved wooden paddles (15. 11. 1904. 19-20), Benin River; earthenware vessel with chevron design (15. 11. 1904. 21), Warri, Benin; drum (15. 11. 1904. 7), from Warri; wooden comb (15. 11. 1904. 12), Young Town, Benin; earthenware jugs (15. 11. 1904. 13-15), Koko Town; fetish in form of a shark (15. 11. 1904. 13), Forcados; specimen of salt (15. 11. 1904. 17), from Ogbé, Ejoli, Warri.

Gold Coast:—

Native loom for weaving cloth, including frame, yarn, healds, reed, shuttle and cloth, native seat, heal protector and sledge with stones for holding the thread taut (15. 11. 1904. 6), Jellah Coffee, Kwitta; native loom complete (except frame) (15. 11. 1904. 8), bottle-stand and reel for winding cotton hanks, specimens of cotton thread, and spindle and whorl for winding "cops" (15. 11. 1904. 9-10), from Jellah Coffee.

Dahomey:—

Two hand clothes decorated with cowrie shells, used in the dance (15. 8. 1904. 1), two primitive adzes (15. 8. 1904. 2), from Whydah, Dahomey; fetishes of various forms and material (15. 8. 1904. 3-10), from Grand Popo, Dahomey; earthenware bowls (15. 11. 1904. 22-24), Grand Popo.

Collected and presented by A. A. Whitehouse, Esq., Eastern Divisional Commissioner, S. Nigeria, during punitive expeditions in the Ijoh country around Wilberforce Island, Akassa Branch, Niger River, 1903, per Mr. A. Ridyard:—

Group of wooden painted male and female fetish figures, heads of various forms with wicker-work framing for attachment, ranging in size from 7 feet to 2 feet (4. 2. 1904. 25-49).

The following specimens have been presented per Mr. A. Ridyard.

Wooden drum (15. 8. 1904. 27), earthenware palm-wine tumbler (15. 8. 1904. 29) and King's messenger sword (15. 8. 1904. 30), from Anamaboe, Gold Coast; presented by King Amanoo V., of Anamaboe.

Carved walking stick (15. 8. 1904. 28), from Kwahu, near Accra; carved wooden soup-ladle (15. 8. 1904. 31), from Pokusai, near Accra; presented by Dr. J. Edward Mettle.

Knife and sheath (4. 2. 1904. 24), Shebro country; presented by Mr. E. T. Wilson, Sierra Leone.

Painted wooden mask (5. 5. 1904. 20), from Qua Ebo, S. Nigeria; presented by Mr. A. Mensah.

Fan (5. 5. 1904. 21), from Ungwa country, S. Nigeria; presented by Captain R. K. Pooley.

Carved wooden head (5. 5. 1904. 22), Qua country, S. Nigeria; presented by Mr. T. J. Mayo.

Three wooden painted male and female figures (5. 5. 1904. 28), Ibbibio country, S. Nigeria; presented by Mr. R. Wilson.

Earthenware water-bottle (5. 5. 1904. 29), from Bissao; presented by Mr. James Brown, Sierra Leone.

Bundoo Devil head of wood (5. 5. 1904. 30), Mendi country, Sierra Leone; presented by Mr. G. Phillipian, Sierra Leone.

Trade mirror, bound in leather by the Yorubas (5. 5. 1904. 31); presented by Mr. W. H. Chapman.

Carved calabashes (4. 2. 1904. 22-23), Accra; two earthenware dishes (5. 5. 1904. 23-24), Accra; two drums (5. 5. 1904. 25-26), Accra; model canoe (5. 5. 1904. 27), Accra; copper money, in form of a St. Andrew's cross (15. 8. 1904. 35), from Katanga; brass weights, used for weighing gold (15. 8. 1904. 36), Ashantee; collected and presented by Macdonald G. Bonso-Bruce.

Basket (15. 8. 1904. 32), Port Lokko; presented by Mr. J. E. D. Green.

Earthenware bowl (15. 8. 1904. 33), from Sapeli, Benin; presented by Mr. Sagos W. Aryee.

Two bronze figures of birds (15. 8. 1904. 34), from Benin; presented by Mr. H. Johnstone.

Earthenware jug, with a head under the lip (15. 11. 1904. 11), from Darmar village, Accra; presented by King Cudjoe Ababio IV., of James Town, Accra.

Miniature double-sword (15. 11. 1904. 28), from Accra; wooden drum (15. 11. 1904. 27), Adenkum, Accra; presented by Prince Tackie.

Two carved wooden soup-ladles (15. 11. 1904. 25-26) from Accra; presented by Mr. Neils W. Lutterodt.

Calabash (15. 11. 1904. 29), Jellah Coffee, Gold Coast; presented by Mr. John Koblavie.

Two wooden figures (15. 11. 1904. 30), from Jellah Coffee, Gold Coast; presented by Mr. W. King.

Drum (15. 11. 1904. 31) from Jellah Coffee; presented by Mr. S. K. Heyman.

Drum and beater (8. 8. 1904. 1), taken at the battle of Yola, Benne River; presented by Mr. James Pinnock.

Haussa gown and hat (8. 8. 1904. 2-3), presented by Mr. James Pinnock.

Musical instrument in form of a human figure (19. 10. 1904. 1), Varama tribe, French Congo; presented by Mr. F. Boydell.

Flint implements (30. 11 1904. 1-12), Tumba, Congo River; purchased.

South Africa:—

Horn spoon (10. 6. 1904. 47), wooden spoon (10. 6. 1904. 48), ivory snuff-spoon (10. 6. 1904. 50), cane ornament (10. 6. 1904. 49): presented by Mrs. Cookson.

North Africa:—

Fly-flap, made of a giraffe's tail (10. 6. 1904. 37), cap, worn by the body-guard of the Mahdi (10. 6. 1904. 38), cap, worn by the body-guard of the Khalifa (10. 6. 1904. 39), from Omdurman, Soudan; two coins (10. 6. 1904. 40-41), found in the treasury at Omdurman; girdle-dress of shells, beads, leather, &c. (10. 6. 1904. 42), Upper Nile; egg-shell charm (10. 6. 1904. 43), Upper Nile: collected and presented by Arthur Earle, Esq., J.P.

Melanesia:—

New Guinea:—

An extensive collection of Ethnographical objects, acquired by purchase (10. 6. 1904. 53-343), containing examples of canoe prows, from Panaietti, Wari, Rogea and Mewstone Islands; canoe baler, Panaietti; paddles, Milne Bay and South Cape; steering paddle, sago stirrers, Mewstone Island and Panaietti; nets, Porlock Bay; floats for nets, Wari and Milne Gulf; painted wooden ornaments from boats, netting needle, float, wild-pig net, painted wooden shields, Nuakata Island; necklace of human hair, Nuakata Island; necklaces of various forms and materials, from Lydia Island, The Trobriands, Clayton Inlet, Porlock Bay, Jabbering Bay and Discovery Bay; plume of cassowary feathers, Killerton Island; pans pipes, combs, head ornaments, three-pronged fork, combs from S. Cape, Lydia Island and Panaietti; armlets, S. Cape, Clayton Inlet, Porlock Bay, Milne Gulf, Maiva; earrings, Louisiades; shell ornaments, armlets, human jaw-bone charms, amulet, Milne Gulf; "musikaka"; lime gourds, Louisiades and South Cape; wooden betel-nut mortars: cocoa-nut water-bottles, Lydia Island, Bentley Bay and Jabbering

Bay; girdle dresses of dyed grass, plaited grass caps, netted bags, spatulas, from Stacey Island, Rabe, Milne Gulf, Discovery Bay; daggers made of cassowary bone, Fly River; shell nose ornaments, Koiari; Jew's harp; sago stirrers from Discovery Bay, South Cape, Waga Waga and Nuakata Island; pipes, mats, clubs with circular stone heads, wooden food bowls, charm (Kotsiva), pillow, basket and lid, Lydia Island; wooden pillows (very rude), Lydia Island; ceremonial adze, D'Entrecasteaux Island; adzes with stone heads, Port Moresby; large number of spears of various forms and sizes, from Panaietti, Nuakata Island and Trobriands; bow and arrows.

Solomon Islands:—

Thirteen arrows (10. 6. 1904. 343) and rudely-carved wooden head (10. 6. 1904. 362), sheet of tapa cloth (10. 6. 1904. 369); purchased.

Santa Cruz:—

Bow and arrows (10. 6. 1904. 344-345); purchased.

Australia:—

Throw-stick (10. 6. 1904. 370); purchased.

New Ireland:—

Grotesque wooden painted mask (10. 6. 1904. 366), thwart of a canoe (10. 6. 1904. 367), painted wooden ornament in form of a bird (10. 6. 1904. 368); purchased.

Bag (2. 12. 1904. 5); presented by Mr. R. D. Radcliffe.

Timor Laut:—

Bow (10. 6. 1904. 346), ten-pronged fish-spear (10. 6. 1904. 347), leaf-shaped metal-headed arrows (10. 6. 1904. 348), arrow, iron-headed (10. 6. 1904. 349), bone-tipped arrow (10. 6. 1904. 350), arrows with serrated heads (10. 6. 1904. 351), spoons made from nautilus shell (10. 6. 1904. 356) wooden comb inlaid with ivory (10. 6. 1904. 352), "soelveli" for holding cotton when making thread (10. 6. 1904. 353), suspender (10. 6. 1904. 354), "eboer," worn by women (10. 6. 1904. 355), nautilus shell spoon (10. 6. 1904.

357), and a nautilus shell from which spoons are made (10. 6. 1904. 358), all from Ritabel Village, Timor Laut; purchased.

Cane divining "pots" (10. 6. 1904. 360-361), Ceram; wooden head squeezer (10. 6. 1904. 359); purchased.

Polynesia.—

Bone fish-hook (10. 6. 1904. 363), Tahiti; pearl-shell fish-hook (10. 6. 1904. 364); purchased.

MONGOLIAN RACE:—

America.—

South:—

Large earthenware water-vessel, height 2 feet $7\frac{1}{4}$ inches, width 3 feet $4\frac{1}{2}$ inches (13. 10. 1904), with painted design, from the Ucayali, a tributary of the River Amazon; presented by Mr. Alfred A. Booth, Liverpool.

North:—

Pair of mocassins (10. 6. 1904. 45), Blood Indians; bag for holding fire-making materials (10. 6. 1904. 46), Indians, N.W. Canada; presented by Miss E. L. Brown.

Pair of child's mocassins (2. 12. 04. 2); presented by Mr. R. D. Radcliffe, F.S.A.

Mexico.—

Four groups of figures, fruit and animal sellers (16. 11. 1904. 1-4); presented by Miss Pearson.

Java.—

Breast ornament of cowrie shells and dyed hair (10. 6. 1904. 44); presented by Mrs. Maskell.

Thibet.—

Necklace composed of segments of human bone, taken from the cranium, of deceased priest (13. 8. 1904. 1); top of a human skull from which beads are cut (13. 8. 1904. 2); presented by Mr. James Pinnoch.

China.—

Pack of playing cards (2. 12. 1904. 4); presented by Mr. R. D. Radcliffe.

CAUCASIAN RACE:—**Egypt.—**

Wooden head from a coffin (10. 6. 1904. 1), and group of earthenware vessels (10. 6. 1904. 2-36), from Beni-Hasan; presented by the Committee of the Beni-Hasan Expedition, 1903-4.

Part of the foot of a Colossus of Rameses II., **xixth** dynasty (13. 10. 1904. 2), slab with figures of three of the royal children performing in the *sed* festival, **xixth** dynasty (13. 10. 1904. 3), slab mentioning the *sed* festival, **xixth** dynasty (13. 10. 1904. 4), steatite knife-handles, Roman period (13. 10. 1904. 5-6), fragment of a glazed bowl (13. 10. 1904. 7) and glass bottle, Roman (13. 10. 1904. 8), from the excavations at Elhnasya; fused mosaic (13. 10. 1904. 9) and fragments of glass (13. 10. 1904. 10), from excavations at Oxyrhynchus; pottery vase (13. 10. 1904. 11), votive offerings, heads and figures of the goddess Hathor (13. 10. 1904. 12-17), inscribed plaque (13. 10. 1904. 18), incense burner (13. 10. 1904. 19), fragment of a vase (13. 10. 1904. 20), piece of a plaque with royal cartouche (13. 10. 1904. 21), part of a blue-glazed tile (13. 10. 1904. 22), base for pottery vases (13. 10. 1904. 23), votive offerings (13. 10. 1904. 24-28, 35), scarab, scaraboids and sacred eye (13. 10. 1904. 29-31), head of Hathor (13. 10. 1904. 32), wooden mallet (13. 10. 1904. 33), piece of rope (13. 10. 1904. 34), piece of limestone with sketch of a giraffe on it (13. 10. 1904. 35), fragment of limestone with inscription (13. 10. 1904. 37), part of a ring-base for vases (13. 10. 1904. 38), base of a blue-glazed vase (13. 10. 1904. 40), vases from a ring-base (13. 10. 1904. 39), all of the **xviii**th dynasty, and found in excavations at Deir-el-bahari; presented by the Committee of the Egypt Exploration Fund.

Breccia bowl (2. 12. 1904. 6), **pre-dynastic**; cylindrical vase of alabaster (2. 12. 1904. 7), **1st dynasty**; dish, of veined alabaster (2. 12. 1904. 8), **1st dynasty**; purchased.

India.—

Basket (2. 12. 1904. 3); presented by Mr. R. D. Radcliffe.

Cloth cap (2. 12. 1904. 1), Funchal, Madeira; presented by Mr. R. D. Radcliffe.

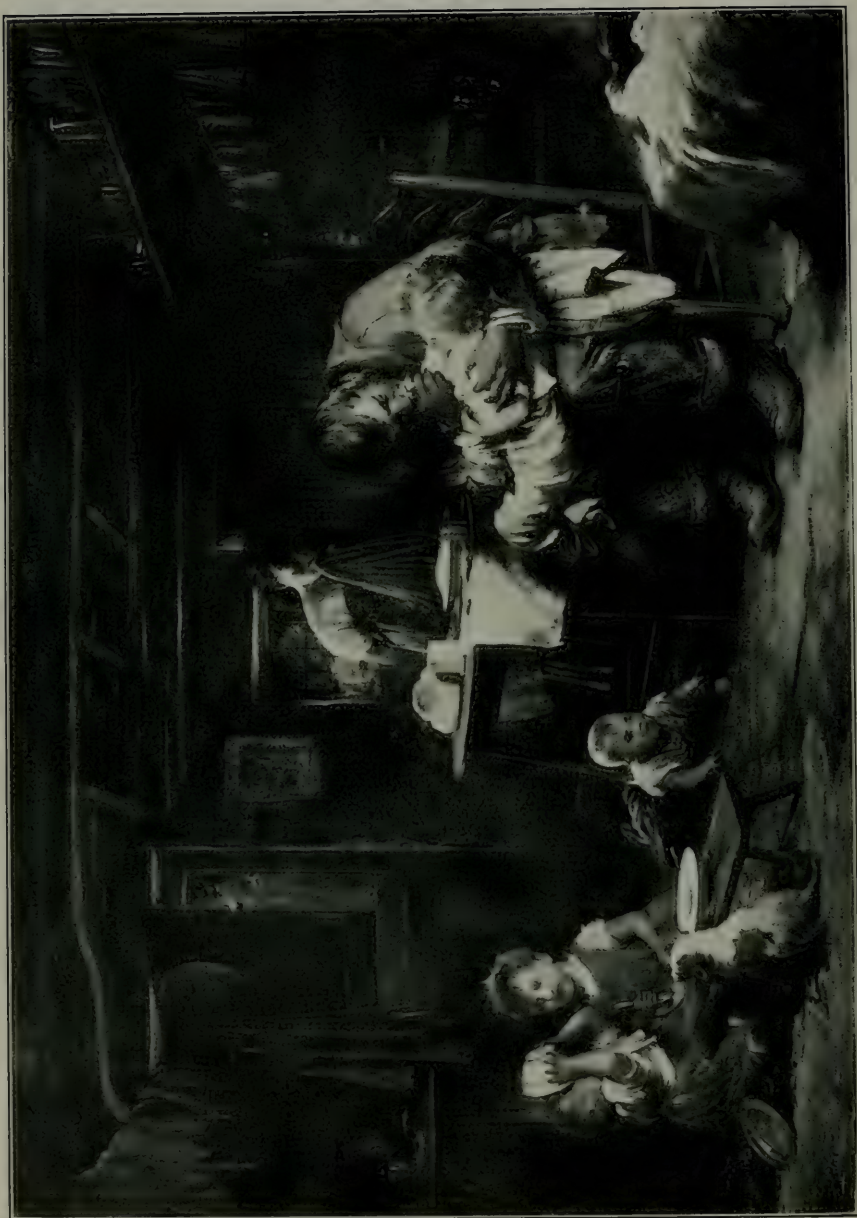
SUMMARY OF ACQUISITIONS.

Ethnography and Photographs	...	...	...	...	...	...	...	...	605
Ceramics	...	...	...	...	...	...	...	...	2
Coins and Medals	...	...	...	...	...	...	...	...	385
									<hr/> 992 <hr/>

HENRY O. FORBES,

DIRECTOR OF MUSEUMS.





"THE WIDOWER"

WALKER ART GALLERY.

The Curator has the honour to report that during the year 1904 the Department under the direction of the Art and Exhibitions Sub-Committee of the City Council has carried on its work on the accustomed lines, with gratifying success; as is shown by the statistics which follow. The most noteworthy exceptional event was the Northern Photographic Exhibition, organised by the Liverpool Amateur Photographic Association, acting in concert with the Leeds Camera Club and the Manchester Photographic Association. The Exhibition is to be held annually in Liverpool, Leeds or Manchester, with the important object of making public triennially in each of these cities all the latest achievements in artistic and scientific photography. It is gratifying to record that the initial exhibition was most successful and a large surplus resulted, of which a moiety was retained by the Photographic Association as a reserve fund for the 1907 exhibition, while the balance was received by the Art Gallery as conditional rent.

The Autumn Exhibition, which was open during 101 days and 75 evenings from the 10th September, 1904, to the 7th January, 1905, was generally allowed to be artistically satisfactory, and the public appreciation of it is indicated in the statistics as to attendances. viz.:—

At One Shilling (101 days)	26,364
At Sixpence (59 evenings)	17,955
At Threepence (16 evenings)	10,445
	<hr/>
	54,764

Season ticket holders:—

Gentlemen (5s.)	382
Ladies (3s. 6d.)	1,445
Students, &c. (2s. 6d.)	1,133

and, in addition, complimentary ticket holders numbered 400, making a total issue of season tickets of 3,360.

The number of Works of Art shown, according to the catalogue, was 2,042, of which 223 were sold, the catalogue prices of which amounted to £7,056 10s. 0d. In addition to the official catalogue, an illustrated edition was, as usual, published by Messrs. D. Marples and Co. The Committee had valuable assistance in the hanging of the Autumn Exhibition from Messrs. Alfred East, A.R.A., John Lavery, R.S.A., and Joseph Kirkpatrick (of the Liverpool Academy).

Two season ticket holders' soirées were held on 4th November and 9th December, both of which were attended by the Right Hon. the Lord Mayor and various other civic dignitaries. At the first, the portrait of the ex-Lord Mayor, Sir Robert A. Hampson, by Mr. R. E. Morrison, was presented to him, and a popular vote was taken as to the principal pictures in the Exhibition. The result of this vote was announced at the second soirée, the award for the successful paper being won by Miss Lily Fothergill, who selected a drawing, No. 764, by Miss Jennie Utley, as her prize. On this occasion a special programme of English music, rendered by the Cathedral Choir, was received with much appreciation.

During the year, rooms have been utilized for the following Exhibitions, viz.:—

Display of work submitted by Candidates for a special scholarship offered by the Education Committee.

Exhibition of work by Scholars of various Industrial Schools, under the auspices of the Home Office Authorities.

Exhibition of Photographic enlargements, appliances, &c., including a course of lectures, by the Kodak Company.

Display of Pictures from Mr. J. Reid Walker's Collection, which is at present deposited on loan in the Art Gallery.

The Northern Photographic Exhibition, under the management of the Liverpool Amateur Photographic Association.

Display of the Elevation Drawings of the Liverpool Cathedral.

For the purposes of the Autumn Exhibition, it was necessary to remove the Pictures of the Permanent Collection from five rooms, a fact which forcibly illustrates the urgent need for a considerable extension of the Gallery.

The question of the proper conservation and exhibition of the "Roscoe" Collection of works by Old Masters has received very special attention, and it is hoped that an agreement may be come to with the Royal Institution Trustees, the owners, which will enable the Art and Exhibitions Sub-Committee to treat the Collection as it deserves.

The additions made to the Permanent Collection during 1904 include Works of exceptional interest and value, as will be seen by reference to the subjoined list.

The time has now come when more than ordinary attention must be given to the material condition of Works of Art in the Permanent Collection, and it will probably be necessary to expend a considerable sum in the repair and re-gilding of frames, the re-lining of canvases, and otherwise. If a satisfactory agreement is come to regarding the "Roscoe" Collection, a further expenditure for the cleaning, restoration, and re-framing of a number of the Pictures will be called for. The interior of the Gallery requires repair and re-decoration, and steps are being taken for the thorough revision of the official catalogue.

On the 30th April, Mr. Charles Dyll, who had been Curator of the Gallery since it was opened in 1877, retired. During his long tenure of office, the success of both the Art Gallery and the Autumn Exhibition were continuous. The Institution was the first of its kind under Municipal control, and the methods initiated by Mr. Dyll have been largely copied by similar institutions which have since come into existence.

In November, the Chairman of the Art and Exhibitions Sub-Committee, Mr. Councillor John Lea, J.P., was elected Lord Mayor of the City, and, in consequence, resigned the Chairmanship with which his Municipal career has been so closely identified. His place is filled by Mr. Councillor Robert D. Holt, D.L.

VISITORS TO THE GALLERY.

During the year the total number of persons who passed through the turnstiles was 404,419, viz. :—

Days.	Persons.	Daily Average.
264 Free Week Days	360,278	1,365
50 Fridays (6d. Admissions and Students) ...	29,111	582
34 Sundays	15,030	442
18 Sundays and Holidays Closed	—	—
366	404,419	1,162

The attendances of students during the year numbered 1965.

After deducting from these figures the 50,163 visitors to the Autumn Exhibition (to 31st December), the daily average on free week days was 1,175, from which, however, a further deduction is due in respect of the visits of the 3,360 Autumn Exhibition season ticket holders. The figures are not, however, ascertainable.

RESULTS OF THE AUTUMN EXHIBITION OF PICTURES.

	1903.			1904.		
	No.	£	s. d.	No.	£	s. d.
Works of Art Exhibited.....	1,785	—		2,042	—	
Do. Sold.....	215	—		223	—	
Amount of sales at Catalogue prices	—	6,968	1 6	—	7,056	10 0
Season Tickets sold	2,831	487	17 0	2,960	490	0 0
Admissions at One Shilling	25,195	1,259	15 0	26,364	1,318	4 0
„ Sixpence	19,318	482	19 0	17,955	448	17 6
„ Threepence	16,142	201	15 6	10,445	130	11 3
Catalogues sold.....	19,648	505	9 9	17,605	437	6 9
Commission on sales	—	221	6 6	—	254	0 3
Miscellaneous Receipts	—	428	15 8	—	593	14 7
Total Receipts, exclusive of sales.....	—	3,366	11 11	—	3,468	14 1

PICTURES LENT.

The following Works have been lent to Exhibitions, &c., as under :—

TITLE.	ARTIST.	LENT TO.
" Dante and Beatrice ".....	Henry Holiday	Oldham Corporation.
" Gibraltar from Algeciras " ...	Alfred East, A.R.A.....	St. Louis (U.S.A.)* International Exhibition.
" Rival Grandfathers ".....	John R. Reid	" " "
" Love and the Mermaid "	Charles J. Allen	" " "
"Portrait of a young Nobleman"	Lucas Van Leyden ...	Whitechapel Art Gallery, London.
" Joseph and the Virgin "	Simone di Martini.....	Burlington Fine Arts Club, London.
" St. Bernardino Preaching "...	Pessellino.....	" " "
" The Birth of St. John "	Fillipino Lippi	" " "
" The Death of Nelson "	D. Maclise, R.A.....	Guildhall Art Gallery, London.
" Ophelia "	Henrietta Rae.....	Scottish Society of Artists, Edinburgh.
" Naples "	G. F. Watts, R.A.	Royal Glasgow Institute of Fine Arts.
" Promises "	" "	" " "
" A Nautical Argument ".....	C. Napier Hemy, A.R.A.	Laing Art Gallery, Newcastle-upon-Tyne.
" And when did you last see your father? "	W. F. Yeames, R.A. ...	" " "
" Tristram and Iseult "	H. J. Draper	Oldham Corporation.
" One of the Family "	F. G. Cotman.....	Bristol Corporation.

* In addition to three pictures noted in report for 1903.

REPRODUCTIONS.

The following privileges for the reproduction of Works in the Permanent Collection have been granted during the year. In no case is the privilege granted an exclusive one, the Committee reserving the right to afford similar facilities to other applicants:—

APPLICANT.	PICTURE.	ARTIST.
Cassell & Co., Ltd.	"One of the Family"	F. G. Cotman.
"	"Ophelia"	Henrietta Rae.
Geo. Newnes, Ltd.	"Sponsa de Libano"	Sir E. Burne-Jones.
C. Arthur Pearson, Ltd.	"A Reverie"	Frank Dicksee, R.A.
E. Rimbault Dibdin	"Chess Players"	S. Melton Fisher.
The Photocrom Co., Ltd.	"Ruth and Naomi"	P. H. Calderon, R.A.
Methuen & Co.	"Lorenzo and Isabella"	Sir J. E. Millais.
Raphael Tuck & Sons	"Friday"	W. Dendy Sadler.
H. C. Marillier	"The Silver Cloud"	R. P. Richards.
"	"The Prisoner of Chillon"	W. Daniels.
Eyre & Spottiswoode	"A Reverie"	Frank Dicksee, R.A.
John Masefield	"A Pilgrimage"	A. Legros.
Banister P. Fletcher	"Model of Ancient Rome"	—
Nops, Ltd.	"An Idyll"	M. Greiffenhagen.
Joseph Bibby	"Faithful unto Death"	Sir E. J. Poynter, Bart., P.R.A.
"	"Don't 'ee tipty toe"	Fred Morgan.
Geo. Newnes, Ltd.	"Dante and Beatrice"	Henry Holiday.
Bolak's Electrotpe Agency	"Ruth and Naomi"	P. H. Calderon, R.A.
Hugh Stokes	"A Man Overboard"	T. Somerscales.
Editor, "Black & White"	"Echo and Narcissus"	J. W. Waterhouse, P.A.
"	"Tristram and Iseult"	H. J. Draper.
"	"A Street in Brittany"	Stanhope Forbes, A.R.A.
"	"Haymakers resting"	F. A. Delobbe.
"	"Love's Baubles"	Byam Shaw.
Miss M. Hepworth Dixon	"A Reverie"	Frank Dicksee, R.A.
T. C. Gotch	"A Pageant of Childhood"	T. C. Gotch.
W. Shaw Sparrow	"The Parable of Forgiveness"	J. E. Lauder, R.S.A.
"	"The Shepherd of Jerusalem"	P. R. Morris, A.R.A.
"	"The Triumph of the Innocents"	W. Holman Hunt.
Andre & Sleigh, Ltd.	"An Idyll"	M. Greiffenhagen.
McCorquodale & Co., Ltd.	"And when did you last see your Father?"	W. F. Yeames, R.A.
Allan Jeans	"A Stowaway"	A. Dixon.
Editor, "Art Journal"	"The Road to Camelot"	G. H. Boughton, R.A.
S. H. Bousfield & Co.	"A Reverie"	Frank Dicksee, R.A.
Hodder & Stoughton	"The Triumph of the Innocents"	W. Holman Hunt.
F. Dolman	"Psyche in the Temple of Love"	Sir E. J. Poynter, Bart., P.R.A.
"	"Faithful unto Death"	"
Oscar Parker	"The Triumph of the Innocents"	W. Holman Hunt.

APPLICANT.	PICTURE.	ARTIST.
Wake & Dean, Ltd.....	"Richard II. resigning the crown to Bolingbroke"	Sir J. Gilbert, R.A.
S. B. Booth	"Faithful unto Death"	Sir E. J. Poynter, Bart., P.R.A.
I. Spielmann	"Gibraltar from Algeciras" ...	Alfred East, A.R.A.
"	"Alas: that Spring should vanish with the Rose"	Mouat Loudan.
"	"Rival Grandfathers"	John R. Reid.
"	"Venus and Anchises"	Sir W. B. Richmond, R.A.
G. H. Peacock	"A New Light in the Harem" ..	F. Goodall, R.A.
Miss A. M. Jessen	"Love's Baubles"	Byam Shaw.
Miss E. Maguire	"Faithful unto Death"	Sir E. J. Poynter, Bart., P.R.A.
J. Edward Parrott	"A Stowaway"	A. Dixon.
Andre & Sleigh, Ltd.	"O Mistress mine"	E. A. Abbey, R.A.
W. Shaw Sparrow	"Blanchisseuses"	Alice Havers.
"	"Madonna Pietra Degli Scrovigni"	Mrs. M. S. Stillman.
"	"Elaine"	Mrs. S. Anderson.
"	"Sintram"	Louisa Starr.
"	"The Sense of Sight"	Mrs. A. L. Swynnerton.
"	"The Reign of Terror"	Miss Jessie Macgregor.
"	"Jephthah"	"
J. Edward Parrott	"The Death of Nelson"	D. Maclise, R.A.
Hy. Young & Sons	"Faithful unto Death"	Sir E. J. Poynter, Bart., P.R.A.
F. Dolman.....	"Eventide"	H. Von Herkomer, R.A.
Geo. Newnes, Ltd.	"A Reverie"	Frank Dicksee, R.A.
A. Hutchinson	"Helena and Hermia"	Sir E. J. Poynter, Bart., P.R.A.
Bolaks Electrotype Agency	"The Sense of Sight"	Mrs. A. L. Swynnerton.
Cassell & Co., Ltd.	"O Mistress Mine"	E. A. Abbey, R.A.
"	"Ruth and Naomi"	P. H. Calderon, R.A.
"	"Awaiting an Audience"	W. Geets.
"	"And when did you last see your Father?"	W. F. Yeames, R.A.
"	"The Shepherd of Jerusalem"	P. R. Morris, A.R.A.
Arnesby Brown, A.R.A.	"The Bridge"	A. Brown, A.R.A.
The Berlin Photographic Co.	"Ruth and Naomi"	P. H. Calderon, R.A.
Geo. Newnes, Ltd.	"Dante's Dream"	D. G. Rossetti.

ADDITIONS to the PERMANENT COLLECTION.

The undermentioned Works of Art have been added to the Permanent Collection during the year, viz.:—

By Purchase from the Autumn Exhibition:—

“The Widower” (oil), by Luke Fildes, R.A.

“The Bridge” (oil), by Arnesby Brown, A.R.A.

“The Lonely Watch” (oil), by the late Richard Wane.

“Nancy” (oil), by Alexander Roche, R.S.A.

“Ajones en fleurs: bords de l'étang de Berre (Provence)” (oil), by Theo. Mayan.

“Sunlight and shadow” (water colour), by W. Follen Bishop, R.B.A.

“Snow drifts” (pastel), by Frederick J. Waugh.

(The two last named were purchased under the terms of the Lord Derby Bèquest.)

Examples of decorative Pottery by the following firms:—

The Della Robbia Pottery and Marble Co., Ltd., of Birkenhead.

W. C. Gibson & Co., Ltd., of Scotswood-on-Tyne.

Pilkington's Tile and Pottery Co., Ltd., of Clifton Junction, near Manchester.

W. Howson Taylor, of Birmingham.

By Purchase:—

“The entry to London of Richard II. and Bolingbroke” (oil), by J. T. Eglington.

“At Hale, Lancashire” (oil), by William Davis.





"THE BRIDGE"

By Arnesby Brown, A.R.A.

A Portfolio of Engravings in colour—facsimile of eleven pictures by Sir Joshua Reynolds, in the Collection of Earl Spencer, at Althorp.

By Donation:—

“The Coat of many colours” (oil), by Ford Madox Brown, presented in memory of William Coltart, of Woodleigh, Birkenhead (formerly of Lodge Lane, Liverpool), by his widow.

“Rebekah at the well” (oil), by R. Gavin, R.S.A., and “Silver Birches” (oil), by Bolton Jones, presented by Walter C. Clarke, Esq.

Marble bust of the late Rev. Dr. Norman McLeod, and a Plaster bust of Prof. Wilson, presented by Mrs. Bertha Stuart.

Portrait of the late Queen, when Princess Victoria, aged 4 (oil), copied by W. Bright Morris from the original by S. P. Denning in the Dulwich Gallery, London, presented by H. Yates-Thompson, Esq.

A Needlework Picture (animal and figure subject), presented by the Executors of the late Henry Holmes.

Illustrated Catalogue of the Pictures at Haughton Hall, Tarporley, Cheshire, with introduction and descriptive and biographical notes by R. R. Carter, presented by Ralph Brocklebank, Esq., for the Art Gallery Library.

By Bequest:—

“Naples” (oil), by the late G. F. Watts, O.M., R.A.

“Promises” (oil), by the late G. F. Watts, O.M., R.A.

“Cupid asleep” (oil), by the late G. F. Watts, O.M., R.A.

“Horse and Lioness” (oil), by George Stubbs, R.A.

“King George III.’s Racehorses” (oil), by George Stubbs, R.A.

Portrait of George Stubbs, R.A. (oil), by Richard Caddick.

“The frightened Horse” (Wedgewood plaque), modelled by George Stubbs, R.A.

Twelve Engravings, after Pictures by George Stubbs, R.A.,
viz. :—

“ The frightened Horse,”

“ Phæton.”

“ Labourers.”

“ Lioness and Lion.”

“ Jupiter and Mare.”

“ Horses fighting.”

“ The Spanish Pointer.”

“ Bulls fighting.”

“ Horse and Lioness.”

“ A Lion.”

“ A Tigress.”

“ Phillis—a Pointer.”

All bequeathed by the late Rev. S. A. Thompson-Yates.

Six Water colour Drawings, by Paul Sandby, R.A., bequeathed
by the late W. A. Sandby, viz. :—

“ Italian Composition.”

“ Conway Castle, North Wales.”

“ Carnarvon Castle.”

“ A view on the River Dee.”

“ Near Old Windsor.”

“ Old Farm buildings.”

With reference to the painting “ The Widower,” by Luke Fildes, R.A. (a native of Liverpool) it is of interest to place upon record an extract from a letter written by the artist regarding it :—

“ I am indeed pleased to hear my small picture of ‘ The Widower ’ has been acquired by a Public Gallery, and particularly so by Liverpool, where my pictures in the past have had much association, and where I have so often exhibited.

“ Perhaps next to ‘ The Doctor,’ ‘ The Widower ’ is the picture I think my best, and though in Sydney it is with friends and admirers. Still I had a feeling that it was in a sense exiled from my artistic surroundings, and I conceived the idea of painting this smaller version, as the probability is the larger picture would never come to England again.

“ Though in no obvious way is this version a departure from the larger one, yet it is a completely independent production from memory, assisted by the sketches I made in 1875.

“ I am also very pleased to find my work is appreciated so much in Liverpool, and when an opportunity occurs I hope you will let the Directors of the Gallery know my satisfaction.”

It should also be recorded that the purchase of this work was only rendered possible by a gift of £150 from a Member of the Committee to make up the purchase money.

E. RIMBAULT DIBDIN,

CURATOR.

Year.	ADMISSIONS.			Threepence.			Season Tickets.			Catalogues Sold.			Commission on Pictures Sold.			Miscellaneous Receipts.			Total Receipts.			Pictures Sold.			
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	
1871	720	16	0	207	14	6	62	2	0	165	10	0	320	18	6	46	4	4	1,523	5	4	6,395	2	6	
1872	601	5	0	48	2	6	59	6	6	168	0	6	312	6	0	3	18	3	1,368	8	3	242	6,231	4	6
1873	665	18	0	229	10	3	96	8	6	199	17	6	371	17	0	2	10	0	1,566	1	3	271	7,402	17	6
1874	854	16	0	241	13	3	151	16	6	247	0	6	479	0	3	2	7	0	1,976	13	6	337	9,514	13	0
1875	972	13	0	237	14	0	210	7	0	279	14	3	617	3	0	11	9	2	2,406	17	11	345	12,299	18	6
1876	1,118	0	0	232	7	6	221	1	0	301	12	0	440	15	3	9	10	7	2,409	15	10	255	8,867	10	0
1877	1,928	12	0	419	3	3	443	11	0	454	10	1	537	11	2	18	4	2	3,801	14	8	301	10,963	11	0
1878	1,964	17	0	423	5	0	528	14	6	562	8	6	237	13	0	142	0	4	4,189	7	10	235	6,225	14	0
1879	1,516	12	0	378	11	9	566	7	6	504	9	3	364	16	0	7	17	0	3,550	15	0	267	9,159	15	0
1880	1,449	11	0	274	4	6	499	16	0	509	7	3	544	3	3	10	17	7	3,727	19	1	271	11,753	7	6
1881	1,434	15	0	376	4	6	475	14	0	468	19	9	523	7	6	15	9	6	3,583	14	9	315	12,210	11	0
1882	1,430	3	0	332	16	0	476	1	0	472	14	6	362	8	9	23	1	11	3,396	8	8	311	7,868	3	6
1883	1,302	1	0	304	17	3	381	3	6	434	15	9	403	13	0	32	6	10	3,132	5	4	226	8,472	10	6
1884	1,965	12	0	519	14	3	649	7	6	599	13	3	432	6	3	87	7	5	4,790	1	2	291	12,313	7	6
1885	1,317	9	0	344	10	0	501	7	6	481	7	9	353	17	0	44	1	10	3,403	2	1	196	8,028	8	6
1886	1,117	1	0	333	15	9	302	10	6	434	9	0	336	13	9	36	19	7	2,989	3	7	224	8,576	18	0
1887	888	15	0	260	0	0	216	4	0	371	2	3	185	3	9	18	11	0	2,329	14	6	181	4,791	19	0
1888	1,473	5	0	186	11	3	384	1	0	524	17	6	268	16	9	40	3	3	3,501	3	9	168	6,461	6	0
1889	1,475	4	0	92	15	6	432	11	6	524	9	6	283	10	6	75	2	7	3,472	1	1	184	8,083	3	6
1890	1,372	11	0	241	4	6	511	12	6	484	18	0	221	16	9	79	1	4	3,286	7	7	188	6,943	1	6
1891	1,765	3	0	449	1	9	593	14	0	589	1	6	281	4	3	61	15	6	4,138	15	6	159	7,603	2	0
1892	1,559	13	0	223	4	0	652	9	6	535	12	9	172	7	9	43	16	2	3,609	2	2	149	5,132	8	6
1893	1,423	15	0	207	12	9	620	18	6	505	9	0	196	11	6	42	6	0	3,441	15	9	139	6,297	9	0
1894	1,290	7	0	246	17	6	641	12	6	560	0	9	142	11	3	31	9	10	3,286	12	10	124	4,345	4	6
1895	1,268	10	0	213	13	3	566	6	0	467	18	0	180	14	0	24	11	4	3,135	17	7	155	5,470	7	0
1896	1,371	15	0	205	7	9	623	2	0	500	14	7	143	16	2	64	17	5	3,332	17	5	151	4,227	8	0
1897	1,510	14	0	258	12	9	584	1	0	553	4	3	179	4	10	90	5	10	3,709	14	2	176	5,821	12	6
1898	1,406	9	0	229	2	0	453	6	6	490	19	8	365	11	10	209	3	9	3,582	19	3	188	9,397	17	6
1899	1,363	5	0	166	1	3	482	13	6	493	0	0	197	0	9	375	14	3	3,536	5	9	172	8,089	2	6
1900	1,431	3	0	189	0	6	541	19	6	501	7	0	277	11	4	922	15	2	4,362	10	6	175	8,508	14	6
1901	1,419	16	0	158	19	3	570	12	6	515	9	0	257	12	10	625	12	7	4,065	13	8	239	7,663	17	0
1902	1,212	8	0	190	5	9	491	19	6	483	15	6	167	14	5	469	14	10	3,450	1	0	169	5,299	6	6
1903	1,259	15	0	201	15	6	487	17	0	505	9	9	221	6	6	428	15	8	3,587	18	5	215	6,968	1	6
1904	1,318	4	0	130	11	3	490	0	0	487	6	9	254	0	3	593	14	7	3,722	14	4	223	7,056	10	0
Total	44,201	13	0	8,920	15	9	14,970	18	6	15,319	5	7	10,635	11	1	4,691	16	7	111,373	19	6	7,477	264,450	3	6

E RIMBAULT DIBDIN, CURATOR.



PREPARED
21 NOV. 1910

